



2009
circuit protection





Founded in 1897, Wylex introduced the first 'consumer unit' to the electrical industry, this original design was the forerunner to the 'Standard Range', which is still in wide use today. From its base at Wythenshawe, through a policy of continuous design improvement, Wylex has developed a comprehensive range of Domestic, Commercial and Industrial circuit protection devices based on quality and close attention to the practical requirements of the contractor including the fundamental requirements of electrical safety embodied in the relevant British and International Standards including IEE Wiring Regulations.

Left

Electrium's purpose built Commercial Centre in Cannock, Staffordshire

NH INSULATED CONSUMER UNITS	2	
NH METAL CONSUMER UNITS	6	
CONSUMER UNIT MCBs RCBOs & FUSES	9	
CONTROL DEVICES	9	
NH DISTRIBUTION BOARDS	10	
DISTRIBUTION BOARD INCOMERS	13	
DISTRIBUTION BOARD MCBs & RCBOs	14	
NH 125 MCCB PANEL BOARDS	16	
PANELBOARD NH125 MCCBs	19	
NH200 MCCB PANELBOARDS	20	
PANELBOARD NH200 MCCBs	23	
NH FUSE SWITCH COMBINATION UNITS	24	
STANDARD RANGE	26	
LIFELINE RCDs & ENCLOSURES	30	
SWITCH DISCONNECTORS & ISOLATORS	34	
TECHNICAL DATA & DIMENSIONS	36	
NUMERIC INDEX	51	



As a leading manufacturer of electrical domestic and industrial circuit protection products, Wylex is committed to the continual improvement of all quality assurance procedures and performance.

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THE NH **Solution 17** RANGE

To help installers comply with the requirements of the new 17th Edition wiring regulations Wylex have created the NH Solution 17 Range of consumer units providing 100% 30mA RCD protection (if required)

- Main Switch - Independent circuits
- Split Load - Half independent circuits
- High Integrity - Some independent circuits
- Dual RCD - no independent circuits



EDITION

For details on the application to meet the 17th edition wiring regulations please refer to page 40.



NH804



NHRS6604



NHRS12SL



NHRS44204

MAIN SWITCH

CAT REF	MS RATING	* WAYS	DIN MODULES	
NH204/40	40A	2		
NH204/63	63A	2		
NH504	100A	5		
NH804	100A	8		
NH1104	100A	11		
NH1404	100A	14		
NH1904	100A	19		
NH504+3	100A	5	3	
NH804+3	100A	8	3	With DIN
NH804+6	100A	8	6	Accessory
NH1104+3	100A	11	3	Section

SPLIT LOAD

CAT REF	RCD RATING	MCB WAYS	MS RATING	* WAYS
NHRS2404	80A 30mA	2	100A	4
NHRS3304	80A 30mA	3	100A	3
NHRS4204	80A 30mA	4	100A	2
NHRS5404	80A 30mA	5	100A	4
NHRS4504	80A 30mA	4	100A	5
NHRS3604	80A 30mA	3	100A	6
NHRS6304	80A 30mA	6	100A	3
NHRS3904	80A 30mA	3	100A	9
NHRS4804	80A 30mA	4	100A	8
NHRS6604	80A 30mA	6	100A	6
NHRS5704	80A 30mA	5	100A	7
NHRS7504	80A 30mA	7	100A	5
NHRS8404	80A 30mA	8	100A	4
NHRS9304	80A 30mA	9	100A	3
NHRS12504	80A 30mA	12	100A	5
NHRS11604	80A 30mA	11	100A	6
NHRS10704	80A 30mA	10	100A	7
NHRS61104	80A 30mA	6	100A	11
NHRS71004	80A 30mA	7	100A	10
NHRS9804	80A 30mA	9	100A	8
NHRS8904	80A 30mA	8	100A	9
NHRS51204	80A 30mA	5	100A	12

FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	RCD RATING	MCB WAYS MIN MAX	MS RATING	* WAYS	* WAYS TOTAL
NHRS6SL	80A 30mA	2 4	100A	2 4	6
NHRS9SL	80A 30mA	3 6	100A	3 6	9
NHRS12SL	80A 30mA	3 9	100A	3 9	12
NHRS17SL	80A 30mA	5 12	100A	5 12	17

SPLIT LOAD WITH DIN RAIL ACCESSORY SECTION

CAT REF	RCD RATING	MCB WAYS	MS RATING	* WAYS	NO OF MODULES
NHRS6504+6	80A 30mA	6	100A	5	6
NHRS5604+6	80A 30mA	5	100A	6	6
NHRS7704+3	80A 30mA	7	100A	7	3
NHRS8604+3	80A 30mA	8	100A	6	3
NHRS6804+3	80A 30mA	6	100A	8	3

HIGH INTEGRITY

CAT REF	30mA MCB WAYS	30mA MCB WAYS	MS RATING	* MS WAYS	TOTAL *
NHRS23204	2	3	100A	2	7
NHRS44204	4	4	100A	2	10
NHRS43304	4	3	100A	3	10
NHRS33404	3	3	100A	4	10
NHRS76204	7	6	100A	2	15
NHRS66304	6	6	100A	3	15
NHRS46504	4	6	100A	5	15
NHRS55504	5	5	100A	5	15
NHRS45604	4	5	100A	6	15
NHRS7SSLHI	1 to 4	1 to 4	100A	1 to 4	7
NHRS10SSLHI	2 to 5	2 to 5	100A	2 to 5	10
NHRS15SSLHI	2 to 9	2 to 9	100A	2 to 9	15

* RCBOs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).



NHISS5504



NHR5504



NHSTM4504



INSULATED - DUAL RCD 2x 80A 30mA RCD

CAT REF	MS WAYS	RCD 1 MCB WAYS	RCD 2 MCB WAYS	TOTAL No of MCB WAYS
NHISS3404	-	3	4	7
NHISS4604	-	4	6	10
NHISS5504	-	5	5	10
NHISS8704	-	7	8	15

INSULATED - FLEXIBLE DUAL RCD 2x 80A 30mA RCD

CAT REF	MS WAYS	RCD1 MCB WAYS	RCD2 MCB WAYS	TOTAL No of MCB WAYS
NHISS10SL	-	4 to 6 Max	4 to 6 Max	10
NHISS15SL	-	6 to 9 Max	6 to 9 Max	15

RCD INCOMER

CAT REF	RCD RATING	MCB WAYS	DIN MODULES
NHRS204/40	40A 30mA	2	
NHRS204/63	63A 30mA	2	
NHRS504	100A 30mA	5	
NHRS804	100A 30mA	8	
NHRS1104	100A 30mA	11	
NHRS1404	100A 30mA	14	
NHRS1904	100A 30mA	19	
NHRM204/40	40A 100mA	2	
NHRM204/63	63A 100mA	2	
NHRM504	100A 100mA	5	
NHRM804	100A 100mA	8	
NHRM1104	100A 100mA	11	
NHRM1404	100A 100mA	14	
NHRM1904	100A 100mA	19	
NHRS504+3	100A 30mA	5	3
NHRS804+3	100A 30mA	8	3
NHRS804+6	100A 30mA	8	6
NHRS1104+3	100A 30mA	11	3
NHTM504	100A 100mA TD*	5	
NHTM804	100A 100mA TD*	8	
NHTM1104	100A 100mA TD*	11	
NHTM1404	100A 100mA TD*	14	
NHTM1904	100A 100mA TD*	19	

* Time Delay RCD

TIME DELAY FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	RCD RATING	MCB WAYS MIN MAX	TD RCD	*MCB WAYS MIN MAX	MCB WAYS TOTAL*
NHSTM9SL	80A 30mA	3 6	100A 100mA	3 6	9
NHSTM12SL	80A 30mA	3 9	100A 100mA	3 9	12
NHSTM17SL	80A 30mA	5 12	100A 100mA	5 12	17

Flexible consumer units utilise a full DIN rail and accept modular DIN devices such as a Bell Transformer or Timer.

SPLIT LOAD WITH TIME DELAY RCD INCOMER

CAT REF	RCD RATING	MCB WAYS	TD RCD	*MCB WAYS
NHSTM3604	80A 30mA	3	100A 100mA	6
NHSTM4504	80A 30mA	4	100A 100mA	5
NHSTM5404	80A 30mA	5	100A 100mA	4
NHSTM6304	80A 30mA	6	100A 100mA	3
NHSTM3904	80A 30mA	3	100A 100mA	9
NHSTM4804	80A 30mA	4	100A 100mA	8
NHSTM5704	80A 30mA	5	100A 100mA	7
NHSTM6604	80A 30mA	6	100A 100mA	6
NHSTM7504	80A 30mA	7	100A 100mA	5
NHSTM8404	80A 30mA	8	100A 100mA	4
NHSTM9304	80A 30mA	9	100A 100mA	3
NHSTM12504	80A 30mA	12	100A 100mA	5
NHSTM11604	80A 30mA	11	100A 100mA	6
NHSTM8904	80A 30mA	8	100A 100mA	9
NHSTM9804	80A 30mA	9	100A 100mA	8
NHSTM10704	80A 30mA	10	100A 100mA	7
NHSTM71004	80A 30mA	7	100A 100mA	10
NHSTM61104	80A 30mA	6	100A 100mA	11
NHSTM51204	80A 30mA	5	100A 100mA	12

A range of matching DIN enclosures is also available, see page 33.

* RCBOs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).



DUAL TARIFF 100A MAIN SWITCH AND 100A MAIN SWITCH

CAT REF	MS RATING	*WAYS	MS RATING	*WAYS
NHIIIX2404	63A	2	100A	4
NHIIIX3304	100A	3	100A	3
NHIIIX5404	100A	5	100A	4
NHIIIX4504	100A	4	100A	5
NHIIIX3904	100A	3	100A	9
NHIIIX4804	100A	4	100A	8
NHIIIX7504	100A	7	100A	5
NHIIIX6604	100A	6	100A	6
NHIIIX5704	100A	5	100A	7
NHIIIX9804	100A	9	100A	8
NHIIIX8904	100A	8	100A	9
NHIIIX11604	100A	11	100A	6
NHIIIX51204	100A	5	100A	12

DUAL TARIFF 100A MAIN SWITCH AND 100A 30mA RCD MAIN SWITCH

CAT REF	RCD RATING	MCB WAYS	MS RATING	*WAYS
NHRSX5704	100A 30mA	5	100A	7
NHRSX6604	100A 30mA	6	100A	6
NHRSX7504	100A 30mA	7	100A	5
NHRSX8904	100A 30mA	8	100A	9
NHRSX9804	100A 30mA	9	100A	8

IP65 CONSUMER UNITS WITH MAIN SWITCH

CAT REF	MS RATING	*WAYS†
NH304IP	63A	3
NH704IP	100A	7
NH1004IP	100A	10

†2 module wide RCBOs only

IP65 CONSUMER UNITS WITH RCD INCOMER

CAT REF	RCD RATING	MCB WAYS
NHRS304IP	40A 30mA	3
NHRS704IP	80A 30mA	7
NHRS1004IP	80A 30mA	10

CUSTOM BUILT

To meet the ever changing requirements and designs of the modern electrical installation, Wylex offers a service where the standard range of products can be modified to specific customer needs.

Our technical services and engineering teams can assess the feasibility of a product requirement whilst our modern manufacturing facilities will produce a high quality competitive solution.

* RCBOs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).

5

NH Insulated Range



**NH806****NHRS4506****NHRS12SLM****NHRS10SSLMHI****MAIN SWITCH**

CAT REF	MS RATING	*WAYS	+ DIN MODULES
NH206/40	40A	2	
NH206/63	63A	2	
NH506	100A	5	
NH806	100A	8	
NH1106	100A	11	
NH1406	100A	14	
NH1906	100A	19	
NH506+3	100A	5	3
NH806+3	100A	8	3
NH806+6	100A	8	6
NH1106+3	100A	11	3

SPLIT LOAD

CAT REF	RCD RATING	MCB WAYS	MS RATING	*WAYS
NHRS2406	80A 30mA	2	100A	4
NHRS3306	80A 30mA	3	100A	3
NHRS4206	80A 30mA	4	100A	2
NHRS5406	80A 30mA	5	100A	4
NHRS4506	80A 30mA	4	100A	5
NHRS3606	80A 30mA	3	100A	6
NHRS6306	80A 30mA	6	100A	3
NHRS3906	80A 30mA	3	100A	9
NHRS4806	80A 30mA	4	100A	8
NHRS6606	80A 30mA	6	100A	6
NHRS5706	80A 30mA	5	100A	7
NHRS7506	80A 30mA	7	100A	5
NHRS8406	80A 30mA	8	100A	4
NHRS9306	80A 30mA	9	100A	3
NHRS12506	80A 30mA	12	100A	5
NHRS11606	80A 30mA	11	100A	6
NHRS10706	80A 30mA	10	100A	7
NHRS61106	80A 30mA	6	100A	11
NHRS71006	80A 30mA	7	100A	10
NHRS9806	80A 30mA	9	100A	8
NHRS8906	80A 30mA	8	100A	9
NHRS51206	80A 30mA	5	100A	12

FLEXIBLE SPLIT LOAD CONSUMER UNITS

CAT REF	RCD RATING	MCB WAYS MIN MAX	MS RATING	*WAYS MIN MAX	*WAYS TOTAL
NHRS6SLM	80A 30mA	2 4	100A	2 4	6
NHRS9SLM	80A 30mA	3 6	100A	3 6	9
NHRS12SLM	80A 30mA	3 9	100A	3 9	12
NHRS17SLM	80A 30mA	5 12	100A	5 12	17

SPLIT LOAD WITH DIN RAIL ACCESSORY SECTION

CAT REF	RCD RATING	MCB WAYS	MS RATING	*WAYS	No of MODULE WAYS
NHRS5606+6	80A 30mA	6	100A	5	6
NHRS7706+3	80A 30mA	7	100A	7	3

100mA available to order

HIGH INTEGRITY

CAT REF	30mA RCD WAYS MCB	30mA RCD WAYS MCB	MS RATING	MS WAYS*	TOTAL
NHRS23206	2	3	100A	2	7
NHRS44206	4	4	100A	2	10
NHRS43306	4	3	100A	3	10
NHRS33406	3	3	100A	4	10
NHRS76206	7	6	100A	2	15
NHRS66306	6	6	100A	3	15
NHRS46506	4	6	100A	5	15
NHRS55506	5	5	100A	5	15
NHRS45606	4	5	100A	6	15
NHRS7SSLMHI	1 to 4	1 to 4	100A	1 to 4	7
NHRS10SSLMHI	2 to 5	2 to 5	100A	2 to 5	10
NHRS15SSLMHI	2 to 9	2 to 9	100A	2 to 9	15

Flush mounting consumer units available to order.

Suffix Catalogue Reference with /FLU eg: **NHRS6606/FLU**

* RCBOs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).



NHISS5506



NHRM1106



NHSTM9SLM



NHIIIX4506

METAL - DUAL RCD 2x 80A 30mA RCD

CAT REF	MS WAYS	RCD 1 MCB WAYS	RCD 2 MCB WAYS	TOTAL No of MCB WAYS
NHISS3406	-	3	4	7
NHISS4606	-	4	6	10
NHISS5506	-	5	5	10
NHISS8706	-	7	8	15

METAL - FLEXIBLE DUAL RCD 2x 80A 30mA RCD

CAT REF	MS WAYS	RCD 1 MCB WAYS	RCD 2 MCB WAYS	TOTAL No of MCB WAYS
NHISS10SLM	-	6 Max	6 Max	10
NHISS15SLM	-	9 Max	9 Max	15

RCD INCOMER

CAT REF	RCD RATING	MCB WAYS
NHRS206/40	40A 30mA	2
NHRS206/63	63A 30mA	2
NHRS506	100A 30mA	5
NHRS806	100A 30mA	8
NHRS1106	100A 30mA	11
NHRM206/40	40A 100mA	2
NHRM206/63	63A 100mA	2
NHRM506	100A 100mA	5
NHRM806	100A 100mA	8
NHRM1106	100A 100mA	11
NHTM506	100A 100mA time delay	5
NHTM806	100A 100mA time delay	8
NHTM1106	100A 100mA time delay	11

SPLIT LOAD WITH TIME DELAY RCD INCOMER

CAT REF	RCD RATING	MCB WAYS	TD RCD RATING	*WAYS
NHSTM3606	80A 30mA	3	100A 100mA	6
NHSTM4506	80A 30mA	4	100A 100mA	5
NHSTM5406	80A 30mA	5	100A 100mA	4
NHSTM6306	80A 30mA	6	100A 100mA	3
NHSTM3906	80A 30mA	3	100A 100mA	9
NHSTM4806	80A 30mA	4	100A 100mA	8
NHSTM6606	80A 30mA	6	100A 100mA	6
NHSTM7506	80A 30mA	7	100A 100mA	5
NHSTM9306	80A 30mA	9	100A 100mA	3
NHSTM8906	80A 30mA	8	100A 100mA	9
NHSTM9806	80A 30mA	9	100A 100mA	8
NHSTM71006	80A 30mA	7	100A 100mA	10
NHSTM61106	80A 30mA	6	100A 100mA	11
NHSTM51206	80A 30mA	5	100A 100mA	12

FLEXIBLE SPLIT LOAD CONSUMER UNITS (TIME DELAY)

CAT REF	RCD RATING	MCB WAYS MIN MAX	TD RCD	*WAYS MIN MAX	*WAYS TOTAL
NHSTM9SLM	80A 30mA	3 6	100A 100mA	3 6	9
NHSTM12SLM	80A 30mA	3 9	100A 100mA	3 9	12
NHSTM17SLM	80A 30mA	5 12	100A 100mA	5 12	17

DUAL TARIFF 100A MAIN SWITCH & 100A MAIN SWITCH

CAT REF	MS RATING	*WAYS	MS RATING	*WAYS
NHIIIX2406	63A	2	100A	4
NHIIIX3306	100A	3	100A	3
NHIIIX4506	100A	4	100A	5
NHIIIX7506	100A	7	100A	5
NHIIIX6606	100A	6	100A	6
NHIIIX5706	100A	5	100A	7
NHIIIX8906	100A	8	100A	9
NHIIIX51206	100A	5	100A	12
NHIIIX11606	100A	11	100A	6

DUAL TARIFF 100A MAIN SWITCH & 100A 30mA RCD SWITCH

CAT REF	RCD RATING	MCB WAYS	MS RATING	*WAYS
NHRSX5706	100A 30mA	5	100A	7
NHRSX6606	100A 30mA	5	100A	6
NHRSX7506	100A 30mA	7	100A	5
NHRSX8906	100A 30mA	8	100A	9
NHRSX9806	100A 30mA	9	100A	8

* RCBOs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).



NHDIS1414



FALNHR10SL



METAL - SPLIT LOAD DUPLEX

CAT REF	TOP BANK		BOTTOM BANK	
	MS RATING	*WAYS	RCD RATING	MCB WAYS
NHDIS88	100A	8	80A 30mA	8
NHDIS1111	100A	11	80A 30mA	11

METAL - HIGH INTEGRITY DUPLEX 2xRCDs, 1x 100A MAIN SWITCH

CAT REF	80A 30mA RCD WAYS		80A 30mA RCD WAYS		MS *WAYS	TOTAL
	BOTTOM BANK	BOTTOM BANK	TOP BANK	TOP BANK		
NHDRS14SSLHI	-	8	Flexi	Flexi	14	14
NHDRS20SSLHI	-	11	Flexi	Flexi	20	20
NHDRS26SSLHI	-	14	Flexi	Flexi	26	26
NHDRS36SSLHI	-	19	Flexi	Flexi	36	36

METAL - HIGH INTEGRITY DUPLEX 3xRCDs, 1x 100A MAIN SWITCH

CAT REF	80A 30mA RCD WAYS		80A 30mA RCD WAYS		MS *WAYS	TOTAL
	BOTTOM BANK	BOTTOM BANK	TOP BANK	TOP BANK		
NHDRS12HI	Flexi	Flexi	Flexi	Flexi	12	12
NHDRS18HI	Flexi	Flexi	Flexi	Flexi	18	18
NHDRS24HI	Flexi	Flexi	Flexi	Flexi	24	24
NHDRS34HI	Flexi	Flexi	Flexi	Flexi	34	34

METAL - DUAL RCD DUPLEX 2xRCDs, 100A MAIN SWITCH

CAT REF	BOTTOM BANK		TOP BANK		TOTAL
	80A 30mA RCD WAYS	80A 30mA RCD WAYS	80A 30mA RCD WAYS	MS WAYS	
NHDISS119	-	11	9	-	20
NHDISS1214	-	14	12	-	26

METAL - DUAL TARIFF DUPLEX

CAT REF	TOP BANK		BOTTOM BANK	
	MS RATING	*WAYS	MS RATING	*WAYS
NHDIIX88	100A	8	100A	8
NHDIIX1111	100A	11	100A	11
NHDIIX1414	100A	14	100A	14
NHDIIX1919	100A	19	100A	19

CAT REF	MS RATING		RCD RATING		MCB WAYS
	MS RATING	*WAYS	RCD RATING	MCB WAYS	
NHDISX88	100A	8	80A 30mA	8	8
NHDISX1111	100A	11	80A 30mA	11	11

MAIN SWITCH

CAT REF	63A 30mA RCD WAYS		MS RATING	*WAYS	TOTAL
	63A 30mA RCD WAYS	63A 30mA RCD WAYS			
FALNH806	-	-	100A	8	8
FALNH1206	-	-	100A	12	12
FALNH1706	-	-	100A	17	17

SPLIT LOAD

FALNHR10SL	-	Flexi	100A	Flexi	10
FALNHR15SL	-	Flexi	100A	Flexi	15

HIGH INTEGRITY

FALNHR8SSL	Flexi	Flexi	100A	Flexi	8
FALNHR13SSL	Flexi	Flexi	100A	Flexi	13
FALNHR46506	4	6	100A	5	15
FALNHR55506	5	5	100A	5	15
FALNHR66306	6	6	100A	3	15
FALNHR76206	7	6	100A	2	15

DUAL SPLIT LOAD RCD

FALNHSS4606	4	6	100A	-	10
FALNHSS5506	5	5	100A	-	10
FALNHSS8706	8	7	100A	-	15

RCD INCOMER

CAT REF	100A 30mA RCD WAYS		TOTAL
	100A 30mA RCD WAYS	100A 30mA RCD WAYS	
FALNHR706	7	7	7
FALNHR1106	11	11	11

* RCBs or MCBs may be fitted to unprotected ways depending upon the installation requirements (see page 40).

**MINIATURE CIRCUIT BREAKERS (6KA)**

B CURVE	C CURVE	RATING	POLES	MODULES
NSB03	-	3A	1	1
NSB06	WELC06	6A	1	1
NSB10	WELC10	10A	1	1
NSB16	WELC16	16A	1	1
NSB20	WELC20	20A	1	1
NSB25	-	25A	1	1
NSB32	WELC32	32A	1	1
NSB40	WELC40	40A	1	1
NSB50	WELC50	50A	1	1

ACCESSORIES

MCBLDX	MCB Locking device
WPL	Padlock for MCBLDX

**NSBS RCBO (combined MCB/RCD device)**

B CURVE	C CURVE	CURRENT RATING	RCD RATING	POLES	MODULES
NSBS6-B/1	NSBS6/1	6A	30mA	SP	1
NSBS10-B/1	NSBS10/1	10A	30mA	SP	1
NSBS16-B/1	NSBS16/1	16A	30mA	SP	1
NSBS20-B/1	NSBS20/1	20A	30mA	SP	1
NSBS32-B/1	NSBS32/1	32A	30mA	SP	1
NSBS40-B/1	NSBS40/1	40A	30mA	SP	1
NSBS50-B/1	NSBS50/1	50A	30mA	SP	1
-	NSBS6/2	6A	30mA	2P	2
-	NSBS10/2	10A	30mA	2P	2
-	NSBS16/2	16A	30mA	2P	2
-	NSBS20/2	20A	30mA	2P	2
-	NSBS32/2	32A	30mA	2P	2
-	NSBS40/2	40A	30mA	2P	2

**MODULAR CARTRIDGE FUSE HOLDERS WITH FUSE**

CAT REF	RATING	POLES	MODULE	SPARE FUSE
NSC05	5A	1	1	CFL05
NSC10	10A	1	1	CFL10
NSC15	15A	1	1	CFL15
NSC20	20A	1	1	CFL20
NSC30	30A	1	1	CFL30
NSC35	35A	1	2	CFL35
NSC40	40A	1	2	CFL40
NSC45	45A	1	2	CFL45

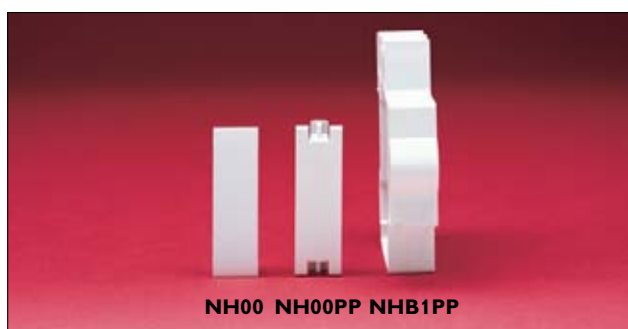
**DIN RAIL MODULAR DEVICES FOR USE IN + UNITS & FLEXIBLE UNITS**

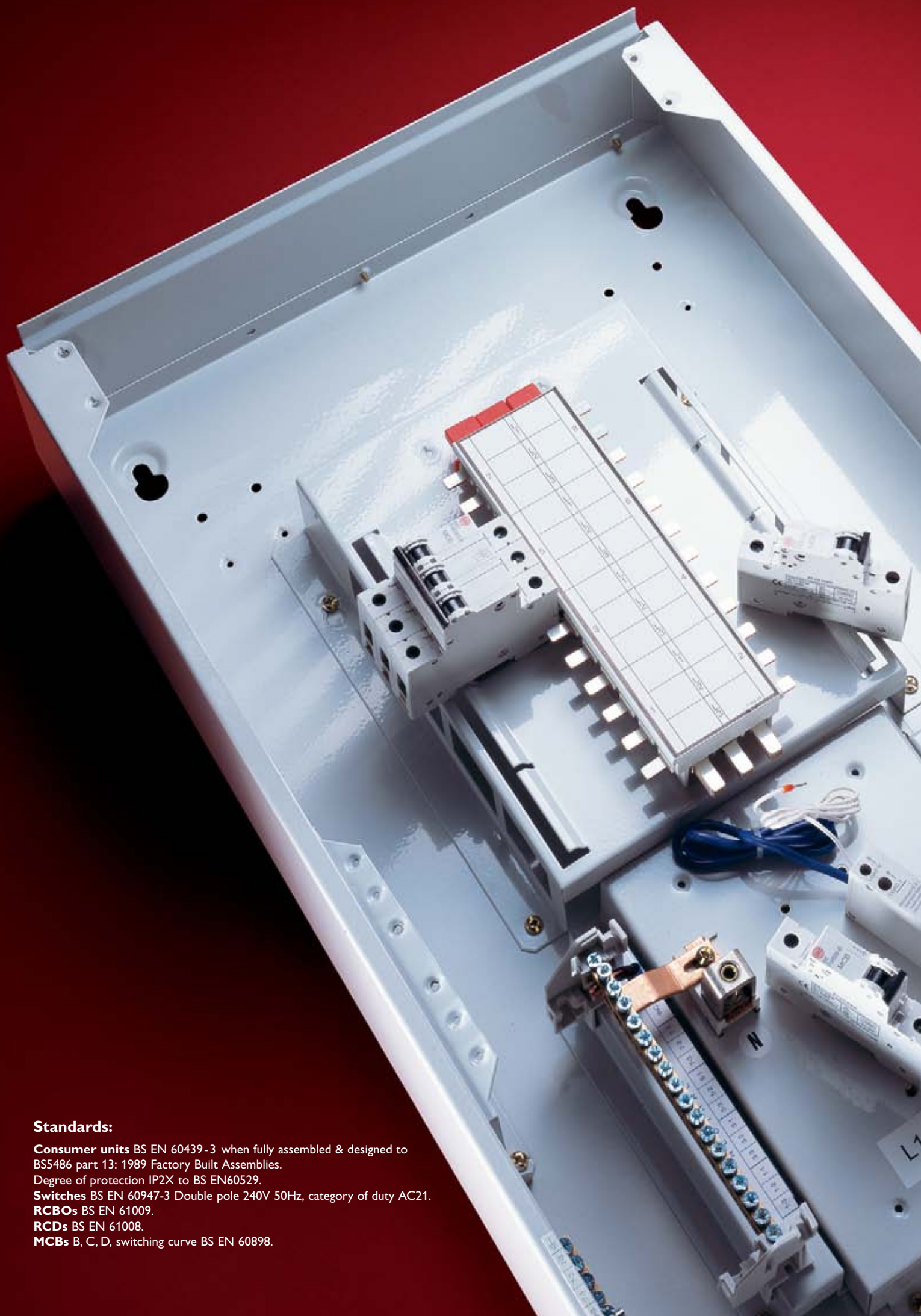
CAT REF	PRODUCT	MODULE
ME232-230	Staircase timer	1
SMSCD11	Digital time clock 1 channel 1xNO/NC contact 16A	1
TMSCD21	Digital time clock 1 channel 1xNO contact 16A	2
TMTCD22	Digital time clock 2 channel 24 hour 7Day prog	2
MESB-20NO	20A 2 pole contactor	1
MESB-24NO	24A 4 pole contactor	2
MESB-40NO	40A 4 pole contactor	3
MESB-63NO	63A 4 pole contactor	3
MTS8	Bell transformer 12V 8VA	2
MTS6/1	Bell transformer 6V 8VA	1
MTS8/1	Bell transformer 8V 8VA	1
MTS12/1	Bell transformer 12V 8VA	1
TRMSCT31	Disc type time clock 1 channel 1xNC contact 16A	3
TRMSCT11	Disc type time clock 1 channel 1xNC contact 16A	3
SMSC11	Disc type time clock 1 channel 1xNO contact 16A	1

When fitting in NH Consumer Units contact Wylex technical services department

NH ACCESSORIES

CAT REF	PRODUCT	MODULE
NHB1PP	Blanking plate - Busbar & cover	1
NH00PP	Blanking plate - Twist fit	1
NH00	Blanking plate - Push fit	1
NHET25	25mm Earth Terminal	-
NH13CBKIT	13 pin comb busbar c/w labels and 5 protection covers	





Standards:

Consumer units BS EN 60439-3 when fully assembled & designed to BS5486 part 13: 1989 Factory Built Assemblies.

Degree of protection IP2X to BS EN60529.

Switches BS EN 60947-3 Double pole 240V 50Hz, category of duty AC21.

RCBOs BS EN 61009.

RCDs BS EN 61008.

MCBs B, C, D, switching curve BS EN 60898.

NH DISTRIBUTION BOARDS

The Wylex range of NH distribution Boards is designed to cater for a variety of industrial and commercial applications.

The wide range of boards is complemented by an extensive choice of incoming Devices including direct connection, switch disconnecter and RCD, outgoing devices include a broad selection of MCBs and RCBOs .

This comprehensive collection of circuit protection and distribution products allows the contractor to select the most economical and electrically appropriate solutions.

- All metal enclosures for both A Boards and B Boards
- Two frame sizes 125A and 250A B Boards
- Choice of incoming devices including Switch Disconnecter, RCDs or Direct Connection
- B Boards accept four pole incomers (125A)
- Over 250 different boards available from standard catalogue items
- Removable pan assembly and gland plates for easy fixing and cable entry
- Split neutral bars help make full use of interior space and keep all terminals accessible
- Range of 10kA and 6kA MCBs
 - Single pole 18mm wide RCBOs





NHSPN0081

TYPE 'A' SP & N DISTRIBUTION BOARD

CAT REF	SWITCH RATING	NO. OF SP WAYS
NHSPN0051	125A	5
NHSPN0081	125A	8
NHSPN00111	125A	11
NHSPN00141	125A	14
NHSPN00161	125A	16
NHSPN00191	125A	19

A wide range of custom built variations are also available.
Contact Wylex Technical for full details.



NHTN4

TP & N TYPE 'B' DISTRIBUTION BOARDS (Excluding Incomer)

CAT REF	DESCRIPTION	NO. OF TP WAYS
NHTN4	125A Distribution board Excluding incomer	4
NHTN6	125A Distribution board Excluding incomer	6
NHTN8	125A Distribution board Excluding incomer	8
NHTN12	125A Distribution board Excluding incomer	12
NHTN16	125A Distribution board Excluding incomer	16
NHTN20	125A Distribution board Excluding incomer	20
NHTN24	125A Distribution board Excluding incomer	24

Suitable for use with switch disconnector, RCD or direct connection incomer arrangement
IP66 TP & N MCB Distribution boards are available up to 16 TP ways

NH 125 METER PACKS

An add on assembly fits below a NHTN 125A board comprising of an enclosure with a slotted front plate and hinged door.
Digital meter with pulsed output, offering Amps, Volts and Kwh readout.
3x current transformers with associated fuses and wiring.

CAT REF	HEIGHT
NHTN125MP	245mm



NHTN25120

TP & N TYPE 'B' DISTRIBUTION BOARDS (Excluding Incomer)

CAT REF	DESCRIPTION	NO. OF TP WAYS
NHTN2540	250A Distribution board Excluding incomer	4
NHTN2560	250A Distribution board Excluding incomer	6
NHTN2580	250A Distribution board Excluding incomer	8
NHTN25120	250A Distribution board Excluding incomer	12
NHTN25160	250A Distribution board Excluding incomer	16
NHTN25200	250A Distribution board Excluding incomer	20
NHTN25240	250A Distribution board Excluding incomer	24

NH 250 METER PACKS

An add on assembly fits below a NHTN 250A board comprising of an enclosure with a slotted front plate and hinged door.
Digital meter with pulsed output, offering Amps, Volts and Kwh readout.
3x current transformers with associated fuses and wiring.

CAT REF	HEIGHT
NHTN250MP	245mm

Suitable for switch disconnector, or direct connection incomer arrangement
Flush mounting boards also available add suffix **/FLU** to Catalogue Reference
eg: **NHTN4/FLU**



WS102

NH A BOARD INCOMERS

CAT REF	DESCRIPTION	RATING
WS602	2 Pole 2 module switch	63A
WS102	2 Pole 2 module switch	100A
WS122	2 Pole 2 module switch	125A
WRS63/2	Double Pole RCD	63A 30mA
WRS80/2	Double Pole RCD	80A 30mA
WRS100/2	Double Pole RCD	100A 30mA
WRM63/2	Double Pole RCD	63A 100mA
WRM80/2	Double Pole RCD	80A 100mA
WRM100/2	Double Pole RCD	100A 100mA
WRL63/2	Double Pole RCD	63A 300mA
WRL100/2	Double Pole RCD	100A 300mA
WRMT100/2	Double Pole Time Delay RCD	100A 100mA
NHDPDC	Double Pole direct connection	100A



WS123

NH B BOARD INCOMERS

CAT REF	DESCRIPTION	RATING
WS603	3 Pole 3 module switch	63A
WS103	3 Pole 3 module switch	100A
WS123	3 Pole 3 module switch	125A
WS604	4 Pole 4 module switch*	63A
WS104	4 Pole 4 module switch*	100A
WS124	4 Pole 4 module switch*	125A
WRS63/4	Four Pole RCD*	63A 30mA
WRS100/4	Four Pole RCD*	100A 30mA
WRM63/4	Four Pole RCD*	63A 100mA
WRM100/4	Four Pole RCD*	100A 100mA
WRL63/4	Four Pole RCD*	63A 300mA
WRL100/4	Four Pole RCD*	100A 300mA
WRMT100/4	Four Pole Time Delay RCD*	100A 100mA
NH4PINKIT	Four Pole Incomer Connection Kit*	100A
NH200TPSW	Three Pole switch disconnect	200A
NH250TPSW	Three Pole switch disconnect	250A
NHTPDC	Direct connection	125A
NH250DC	Direct connection	250A
NHSPAK	Single phase adaptor kit	125A

* Four Pole DIN Incomers require Incomer connection Kit. REF, NH4PINKIT

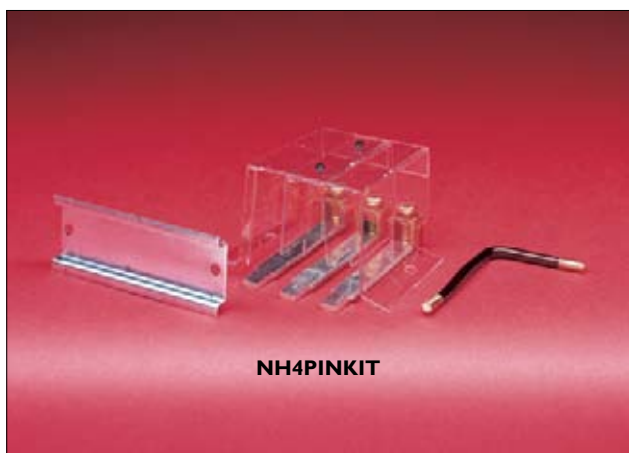


NHAB2

EXTENSION & ACCESSORY BOXES

CAT REF	DESCRIPTION	DIN MODULES
NHEB	Cable extension box (plain)	
NHEB/DIN	DIN accessory box single row (plain)	
NHAB	DIN accessory box single row	18
NHAB2	DIN accessory box two row	36
NHAB3	DIN accessory box three row	54
NHAB4	DIN accessory box four row	72
NHAB5	DIN accessory box five row	90

18 modules per row



NH4PINKIT

ACCESSORIES

CAT REF	DESCRIPTION
NHEP11	Replacement gland plate
NH00	Way blank
NHB1PP	1 Way busbar & cover blank
NH18BB1	9 busbar insulators
PSBL3	Way blank (3 module)
PSBL9	Way blank (9 modules)
MCBLDX	Locking device for MCB
WPL	Padlock for MCBLDX
NHPBDL	MCB Board lock
PDDPL	Doorlock with padlocking device
NHCEKIT	14 terminal clean earth kit
NHCEKIT20	20 terminal clean earth kit
NHMSL	Locking device for incoming switch
NHBBTOK	Bus bar tap off kit

**SINGLE POLE MCBs**

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 6kA	1	NSB06-B	NSB06-C	NSB06-D
10A 6kA	1	NSB10-B	NSB10-C	NSB10-D
16A 6kA	1	NSB16-B	NSB16-C	NSB16-D
20A 6kA	1	NSB20-B	NSB20-C	NSB20-D
32A 6kA	1	NSB32-B	NSB32-C	NSB32-D
40A 6kA	1	NSB40-B	NSB40-C	NSB40-D
50A 6kA	1	NSB50-B	NSB50-C	NSB50-D
63A 6kA	1	NSB63-B	NSB63-C	NSB63-D
6A 10kA	1	PSB06-B	PSB06-C	PSB06-D
10A 10kA	1	PSB10-B	PSB10-C	PSB10-D
16A 10kA	1	PSB16-B	PSB16-C	PSB16-D
20A 10kA	1	PSB20-B	PSB20-C	PSB20-D
25A 10kA	1	PSB25-B	PSB25-C	PSB25-D
32A 10kA	1	PSB32-B	PSB32-C	PSB32-D
40A 10kA	1	PSB40-B	PSB40-C	PSB40-D
50A 10kA	1	PSB50-B	PSB50-C	PSB50-D
63A 10kA	1	PSB63-B	PSB63-C	PSB63-D

**TWO POLE MCBs**

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 6kA	2	NSB206-B	NSB206-C	NSB206-D
10A 6kA	2	NSB210-B	NSB210-C	NSB210-D
16A 6kA	2	NSB216-B	NSB216-C	NSB216-D
20A 6kA	2	NSB220-B	NSB220-C	NSB220-D
32A 6kA	2	NSB232-B	NSB232-C	NSB232-D
40A 6kA	2	NSB240-B	NSB240-C	NSB240-D
50A 6kA	2	NSB250-B	NSB250-C	NSB250-D
63A 6kA	2	NSB263-B	NSB263-C	NSB263-D
6A 10kA	2	PSB206-B	PSB206-C	PSB206-D
10A 10kA	2	PSB210-B	PSB210-C	PSB210-D
16A 10kA	2	PSB216-B	PSB216-C	PSB216-D
20A 10kA	2	PSB220-B	PSB220-C	PSB220-D
25A 10kA	2	PSB225-B	PSB225-C	PSB225-D
32A 10kA	2	PSB232-B	PSB232-C	PSB232-D
40A 10kA	2	PSB240-B	PSB240-C	PSB240-D
50A 10kA	2	PSB250-B	PSB250-C	PSB250-D
63A 10kA	2	PSB263-B	PSB263-C	PSB263-D

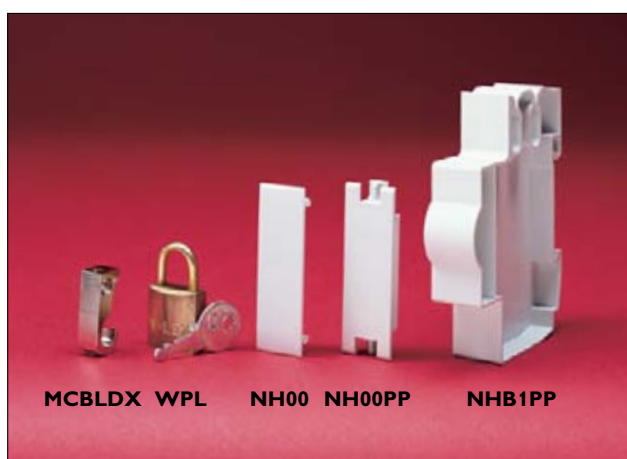
**TRIPLE POLE MCBs**

RATING	POLES	B CURVE	C CURVE	D CURVE
6A 6kA	3	NSB306-B	NSB306-C	NSB306-D
10A 6kA	3	NSB310-B	NSB310-C	NSB310-D
16A 6kA	3	NSB316-B	NSB316-C	NSB316-D
20A 6kA	3	NSB320-B	NSB320-C	NSB320-D
32A 6kA	3	NSB332-B	NSB332-C	NSB332-D
40A 6kA	3	NSB340-B	NSB340-C	NSB340-D
50A 6kA	3	NSB350-B	NSB350-C	NSB350-D
63A 6kA	3	NSB363-B	NSB363-C	NSB363-D
6A 10kA	3	PSB306-B	PSB306-C	PSB306-D
10A 10kA	3	PSB310-B	PSB310-C	PSB310-D
16A 10kA	3	PSB316-B	PSB316-C	PSB316-D
20A 10kA	3	PSB320-B	PSB320-C	PSB320-D
25A 10kA	3	PSB325-B	PSB325-C	PSB325-D
32A 10kA	3	PSB332-B	PSB332-C	PSB332-D
40A 10kA	3	PSB340-B	PSB340-C	PSB340-D
50A 10kA	3	PSB350-B	PSB350-C	PSB350-D
63A 10kA	3	PSB363-B	PSB363-C	PSB363-D



SINGLE MODULE RCBO - FOR USE IN NH TYPE A & B DISTRIBUTION BOARDS

RATING	POLES	RCD RATING	C CURVE
6A 10kA	1	30mA	PSBS6/1
10A 10kA	1	30mA	PSBS10/1
16A 10kA	1	30mA	PSBS16/1
20A 10kA	1	30mA	PSBS20/1
32A 10kA	1	30mA	PSBS32/1
40A 10kA	1	30mA	PSBS40/1
50A 10kA	1	30mA	PSBS50/1



ACCESSORIES

CAT REF	DESCRIPTION
NHEP11	Replacement gland plate
NH00	Way blank
NH00PP	Twist fit 1 module blank
NHB1PP	1 Way busbar & cover blank
NH18BB1	9 busbar insulators
PSBL3	Way blank (3 module)
PSBL9	Way blank (9 modules)
MCBLDX	Locking device for MCB
WPL	Padlock for MCBLDX
NHPBDL	MCB Board lock
PDDPL	Doorlock with padlocking device
NHCEKIT	14 terminal clean earth kit
NHCEKIT20	20 terminal clean earth kit
NHMSL	Locking device for incoming switch
NHBTOK	Bus bar tap off kit



TWO MODULE RCBO - NOT FOR USE IN NH TYPE A & B DISTRIBUTION BOARDS

RATING	POLES	RCD RATING	C CURVE
6A 6kA	2	30mA	NSBS6/2
10A 6kA	2	30mA	NSBS10/2
16A 6kA	2	30mA	NSBS16/2
20A 6kA	2	30mA	NSBS20/2
32A 6kA	2	30mA	NSBS32/2
40A 6kA	2	30mA	NSBS40/2
6A 10kA	2	30mA	PSBS6/2
10A 10kA	2	30mA	PSBS10/2
16A 10kA	2	30mA	PSBS16/2
20A 10kA	2	30mA	PSBS20/2
32A 10kA	2	30mA	PSBS32/2
40A 10kA	2	30mA	PSBS40/2

For use in DIN Enclosures EG: NH ED Range or + Units



DIN RAIL MODULAR DEVICES

CAT REF	PRODUCT	MODULE
SMSCD11	Digital Timeclock 1 channel 1xNO/NC Contact 16A	1
TMSCD21	Digital Timeclock 1 channel 1xNO Contact 16A	2
TMTCD22	Digital Timeclock 2 channel	2
MESB-20NC	240V Coil 2 Pole 20A Contact rating 2 x N/C	1
MESB-20NO	240V Coil 2 Pole 20A Contact rating 2 x N/O	1
MESB-24NC	240V Coil 4 Pole 24A Contact rating 4 x N/C	2
MESB-24NO	240V Coil 4 Pole 24A Contact rating 4 x N/O	2
MESB-40NC	240V Coil 4 Pole 40A Contact rating 4 x N/C	3
MESB-40NO	240V Coil 4 Pole 40A Contact rating 4 x N/O	3
MESB-63NO	240V Coil 4 Pole 63A Contact rating 4 x N/O	3

For use in DIN Enclosures EG: NH ED Range, Flexible CUs or '+' Units

NH125 MCCB PANELBOARDS

NH125 MCCB Panelboards offer 250A or 400A fault rated, fully shrouded busbar systems in a modular enclosure system.

The 630mm wide enclosure system combined with MCCBs and a range of accessories, provides a competent flexible main or sub-main distribution board.

- NHG125 MCCBs with 25kA fault breaking capacity
- 25A-125A ratings G Frame
- 70mm² cable clamp terminals or 10mm flat bar
- Comprehensive range of accessories including sealable terminal covers
- Fully shrouded bus bars
- Excellent access to N/E bars for cabling
- Full or partial lockable doors
- Conforms fully with BSEN 60943-1 form 2





NHPB6SW250

250A SWITCH DISCONNECTOR INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
250A	6	17	902	NHPB6SW250
	8	17	902	NHPB8SW250
	12	20	1060	NHPB12SW250

- BSEN 60439
- 250A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 120 mm² 4 Core Max on Incoming Terminals
- 70 mm² 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer
- Also available excluding incomer for direct connection applications



NHPB6CB200

200A MCCB INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
200A	6	17	902	NHPB6CB200
	8	17	902	NHPB8CB200
	12	20	1060	NHPB12CB200

- BSEN 60439
- 250A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 120 mm² 4 Core Max on Incoming Terminals
- 70 mm² 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer

NH 125 PANEL BOARD METER PACKS

An add on assembly fits below a NHPB 250A Panelboard comprising of an enclosure with a slotted front plate and hinged door.
Digital meter with pulsed output, offering Amps, Volts and Kwh readout.
3x current transformers with associated fuses and wiring.

RATING	HEIGHT	CAT REF
0-250A	210mm	NHG250MP



NHG250MP

DOOR KITS

PANELBOARD	MODULAR HEIGHT	CAT REF
6/8 way	17	NHFHDK17
12 way	20	NHFHDK20
Door lock		NHPBDL

ACCESSORY BOXES

PANELBOARD	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Cable Spreader Box	4	210	NHCSB
DIN Accessory Box			NHGAB
A Board 13 way			NHG13DB



400A SWITCH DISCONNECTER INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
400A	6	20	1060	NHPB6SW400
	8	20	1060	NHPB8SW400
	12	23	1217	NHPB12SW400
	16	26	1375	NHPB16SW400

- BSEN 60439
- 400A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 240 mm² 4 Core Max on Incoming Terminals
- 70 mm² 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer
- Also available excluding incomer for direct connection applications



400A MCCB INCOMER

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
400A	6	20	1060	NHPB6CB400
	8	20	1060	NHPB8CB400
	12	23	1217	NHPB12CB400
	16	26	1375	NHPB16CB400

- Conforms to BSEN 60439
- 400A Busbars
- Busbar fault rated 25kA–1 sec
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- 630mm wide x 165mm deep
- 240 mm² 4 Core Max on Incoming Terminals
- 70 mm² 4 Core Max on Outgoing Terminals
- Fully assembled
- Complete with incomer

NH 125 PANEL BOARD METER PACKS

An add on assembly fits below a NHPB 400A Panelboard comprising of an enclosure with a slotted front plate and hinged door.
Digital meter with pulsed output, offering Amps, Volts and Kwh readout.
3x current transformers with associated fuses and wiring.

RATING	HEIGHT	CAT REF
0-400A	210mm	NHG400MP

DOOR KITS

PANELBOARD	MODULAR HEIGHT	CAT REF
6/8 way	20	NHFHDK20
12 way	23 (12+11)	NHCBDK12
		NHCBDK11
16 way	26 (15+11)	NHCBDK15
		NHCBDK11
Door lock		NHPBDL

EXTENSION BOXES

PANELBOARD	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Cable Spreader Box	4	210	NHCSB
DIN Accessory Box			NHGAB
A Board 13 way			NHG13DB





NHGPCB1001

NH SINGLE POLE MCCBs

- Conforms to BSEN 60947-2
- 16kA Icu at 240V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Terminal Capacity 70mm²

RATING	CAT REF
16A	NHGPCB161
25A	NHGPCB251
32A	NHGPCB321
40A	NHGPCB401
50A	NHGPCB501
63A	NHGPCB631
80A	NHGPCB801
100A	NHGPCB1001
125A	NHGPCB1251



NHGPCB633

NH THREE POLE MCCBs

- Conforms to BSEN 60947-2
- 25kA Icu at 415V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Large range of accessories
- Terminal Capacity 70mm²

RATING	CAT REF
16A	NHGPCB163
25A	NHGPCB253
32A	NHGPCB323
40A	NHGPCB403
50A	NHGPCB503
63A	NHGPCB633
80A	NHGPCB803
100A	NHGPCB1003
125A	NHGPCB1253



NHCB1TS

NHCB3TS

NH MCCBs ACCESSORIES

DESCRIPTION	CAT REF
70mm Terminal adaptor (2x25 to 1x70mm)	NHPBN25/70
Dolly and padlocking facility	NHPCBLDX
Padlock to fit	NHPCBPL
1P Terminal Shroud	NHPCB1TS
3P Terminal Shroud	NHPCB3TS
AUXILIARY EQUIPMENT	
Auxiliary Contacts	
1 x n.o./n.c. Volt Free	NHPCBAU1
2 x n.o./n.c. Volt Free	NHPCBAU2
9 x Busbar Insulators	NH18BB1
9 module Blanking plate	PSBL9

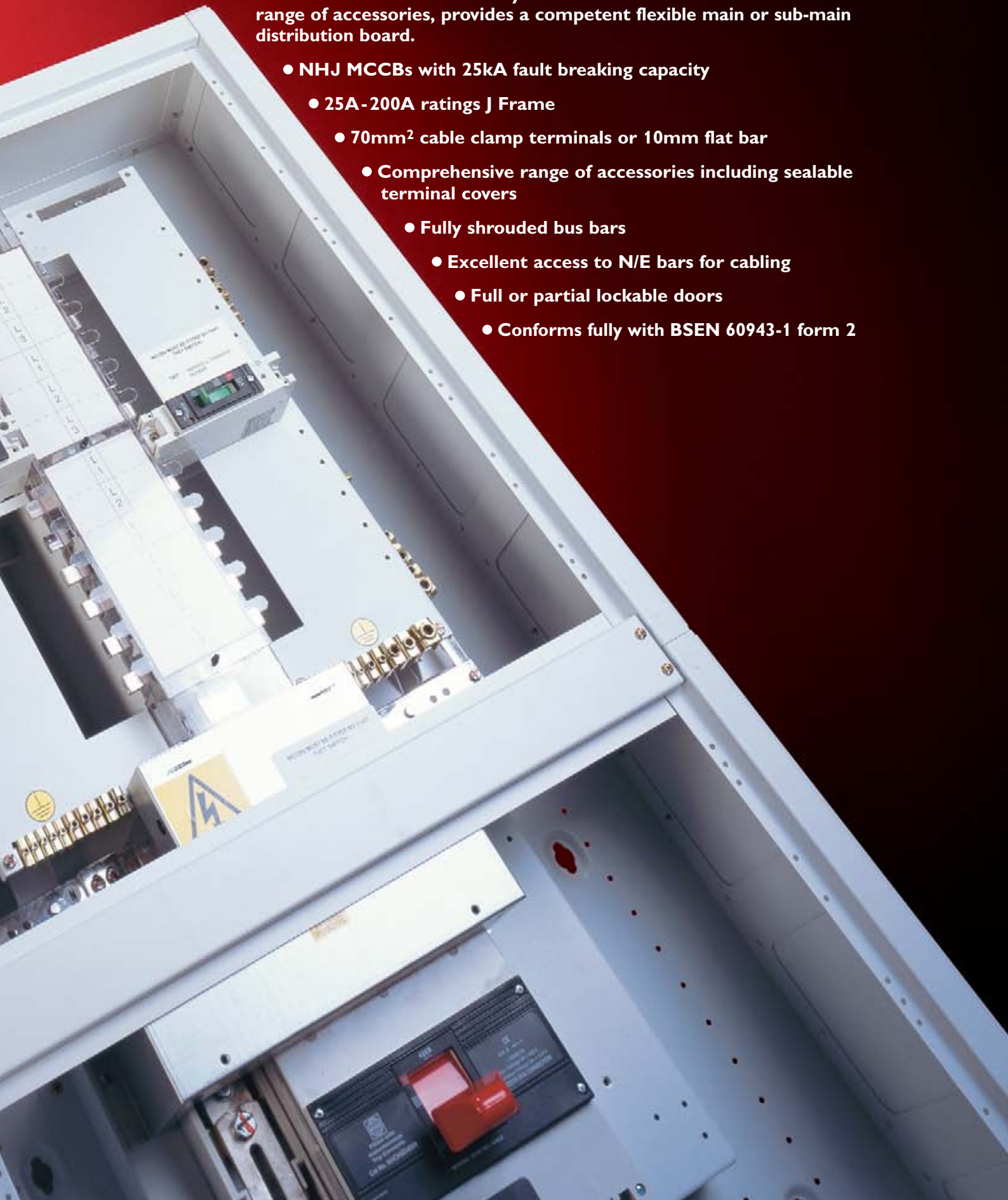


NH200 MCCB PANELBOARDS

NH200 MCCB Panelboards offer 400A, 630A and 800A fault rated, fully shrouded busbar systems in a modular enclosure arrangement.

The 630mm wide enclosure system combined with NHJ MCCBs and a range of accessories, provides a competent flexible main or sub-main distribution board.

- NHJ MCCBs with 25kA fault breaking capacity
- 25A-200A ratings J Frame
- 70mm² cable clamp terminals or 10mm flat bar
- Comprehensive range of accessories including sealable terminal covers
- Fully shrouded bus bars
- Excellent access to N/E bars for cabling
- Full or partial lockable doors
- Conforms fully with BSEN 60943-1 form 2





NSPE 4120



NSPE 4172



NSPE 4199

400A J FRAME PANEL BOARDS

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Switch Disconnector Incomer				
400A	4	3	576	NSPE-4136
	8	4	768	NSPE-4120
	12	5	960	NSPE-4137
	16	6	1152	NSPE-4138
32kA MCCB Incomer				
400A	4	3	576	NSPE-4182
	8	4	768	NSPE-4183
	12	5	960	NSPE-4184
	16	6	1152	NSPE-4185
50kA MCCB Incomer				
400A	4	3	576	NSPE-4186
	8	4	768	NSPE-4187
	12	5	960	NSPE-4188
	16	6	1152	NSPE-4189

- BSEN 60439
- 400A Busbar
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- Fully assembled
- Complete with incomer

630A J FRAME PANEL BOARDS

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Switch Disconnector Incomer				
630A	4	3	576	NSPE-4190
	8	4	768	NSPE-4191
	12	5	960	NSPE-4192
	16	6	1152	NSPE-4193
32kA MCCB Incomer				
630A	4	3	576	NSPE-4171
	8	4	768	NSPE-4172
	12	5	960	NSPE-4173
	16	6	1152	NSPE-4174
50kA MCCB Incomer				
630A	4	3	576	NSPE-4194
	8	4	768	NSPE-4195
	12	5	960	NSPE-4196
	16	6	1152	NSPE-4197

- BSEN 60439
- 630A Busbar
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- Fully assembled
- Complete with incomer

800A J FRAME PANEL BOARDS

	OUTGOING WAYS	MODULAR HEIGHT	HEIGHT (mm)	CAT REF
Switch Disconnector Incomer				
800A	4	3	576	NSPE-4151
	8	4	768	NSPE-4152
	12	5	960	NSPE-4153
	16	6	1152	NSPE-4154
50kA MCCB Incomer				
800A	4	3	576	NSPE-4198
	8	4	768	NSPE-4199
	12	5	960	NSPE-4200
	16	6	1152	NSPE-4201

- BSEN 60439
- 800A Busbar
- IP31 (41 with door) Ingress Protection
- Earth and neutral terminals for each SP way
- Fully assembled
- Complete with incomer



NHJPCB1601

NHJ SINGLE POLE MCCBs

- Conforms to BSEN 60947-2
- 50kA Icu at 240V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Terminal Capacity 120mm² (solid) 150mm² (stranded)

RATING	CAT REF
16A	NHJPCB161
25A	NHJPCB251
32A	NHJPCB321
40A	NHJPCB401
50A	NHJPCB501
63A	NHJPCB631
80A	NHJPCB801
100A	NHJPCB1001
125A	NHJPCB1251
160A	NHJPCB1601
200A	NHJPCB2001



NHJPCB2003

NHJ THREE POLE MCCBs

- Conforms to BSEN 60947-2
- 50kA Icu at 240V ac
- Fixed magnetic
- Fixed thermal
- Double insulated
- Terminal Capacity 120mm² (solid) 150mm² (stranded)

RATING	CAT REF
16A	NHJPCB163
25A	NHJPCB253
32A	NHJPCB323
40A	NHJPCB403
50A	NHJPCB503
63A	NHJPCB633
80A	NHJPCB803
100A	NHJPCB1003
125A	NHJPCB1253
160A	NHJPCB1603
200A	NHJPCB2003

SINGLE POLE NHJ WAY BLANK

MODULES	CAT REF
1	NHJ00

OUTGOING SECTION OPTIONAL DOORS

	MODULES	CAT REF
3 Mod high door (4W OUT)	3	NHJD03
4 Mod high door (8W OUT)	4	NHJD04
5 Mod high door (12W OUT)	5	NHJD05
6 Mod high door (16W OUT)	6	NHJD06

CABLEWAYS/SPREADER EXTENSION BOXES

	MODULES	CAT REF
3 Mod side cable way †	3	NHJCW3
4 Mod side cable way †	4	NHJCW4
5 Mod side cable way †	5	NHJCW5
6 Mod side cable way †	6	NHJCW6
2 Mod cable spreader box ††	2	NHJCSB2
3 Mod cable spreader box ††	3	NHJCSB3
4 Mod cable spreader box ††	4	NHJCSB4
5 Mod cable spreader box ††	5	NHJCSB5
6 Mod cable spreader box ††	6	NHJCSB6

† Fits left or right hand side of Panelboard

†† Fits at bottom of Panelboard



NHJD04

NH FUSE-COMBINATION UNITS

NH Fuse combination units are designed with features that ensure compliance with EN60947 while also providing an economical and high quality range of industrial switchgear products.

With ratings from 20A to 200A and a choice of single pole or three pole configurations, NH fuse combination units have a utilisation category of AC23A, and fused short circuit capacity of 80kA.

- Robust steel enclosures with cable glanding plate supplied top and bottom
- Removable door opens through 180° for ease of access
- Easy access fuse link fixings
- Neutral fully rated
- Fully shrouded terminals
- Handle padlocking facility locks switch & door in off position
- Large cable terminal capacity
- Ingress protection to IP4X
- Positive indication of On and Off



**NHSPSF32****NH FUSE COMBINATION UNIT 20A-32A**

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
20A	4	SP & N	YES	NHSPSF20
20A	4	TP & N	YES	NHTPSF20
32A	4	SP & N	YES	NHSPSF32
32A	4	TP & N	YES	NHTPSF32

Fuse Combination Units Technical Specification
 EN 60947-3
 IEC 947-3
 80kA RMS Fused Short Circuit Capacity
 415V ac Rated Voltage
 Full Uninterrupted Duty
 AC23A Utilisation Category

**NHTPSF63****NH FUSE COMBINATION UNIT 63A-125A**

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
63A	5	SP & N	YES	NHSPSF63
63A	5	TP & N	YES	NHTPSF63
100A	5	SP & N	YES	NHSPSF100
100A	5	TP & N	YES	NHTPSF100
125A	6	TP & N	YES	NHTPSF125

ACCESSORIES

	DESCRIPTION	CAT REF
63A	Copper Isolator links	NHCIL2
100A & 125A	Copper Isolator links	NHCIL3
63A to 125A	Cable Spreader Box	NHCSB2

For fuse types see page 50

**NHTPSF160****NH FUSE COMBINATION UNIT 160A-800A**

AMPERAGE	MODULES	TYPE	SUPPLIED WITH FUSES	CAT REF
160A	6	TP & N	NO	NHTPSF160
200A	6	TP & N	NO	NHTPSF200
315A	8	TP & N	NO	NHTPSF315
400A	8	TP & N	NO	NHTPSF400
630A	12	TP & N	NO	NHTPSF630
800A	12	TP & N	NO	NHTPSF800

ACCESSORIES

	DESCRIPTION	CAT REF
160A & 200A	Copper Isolator links	NHCIL3
160A & 200A	Cable Spreader Box	NHCSB3
315A & 400A	Copper Isolator links	NHCIL4
315A & 400A	Cable Spreader Box	NHCSB4
630A & 800A	Copper Isolator links	NHCIL5
630A & 800A	Cable Spreader Box	NHCSB5

For fuse types see page 50

**NH SW63X****BUS BAR CHAMBER**

AMPERAGE	MODULES	TYPE	CAT REF
400A	16	TP & N	NHSFBBC400

NH ISOLATOR SWITCHES IN STEEL ENCLOSURE

AMPERAGE	BOX SIZE	CAT REF
20A	1	NHSW320
32A	1	NHSW332
40A	1	NHSW340
63A	1	NHSW363
63A	2	NHSW363X
100A	2	NHSW3100
125A	1	NHSW3125

Cable spreading room is allowed for at one end only. To fit a 4 core cable at both ends an additional cable spreader box will be required.
 Above 22mm wide cable lugs terminal interphase barriers are required. 1 Module=52.5mm. Contact Wylex Technical Services department for details.



WYLEX

SWITCH OFF
BEFORE
HANDLING
FUSES

WYLEX

B32 ON

B16 ON

3000 OFF
240V~ CE
BSEN60898

3000 OFF
240V~ CE
BSEN60898

STANDARD RANGE

The Wylex Standard range of consumer units remains one of the most widely used ranges in domestic circuit protection applications.

Originally designed with fuses in mind, standard consumer units can easily be upgraded to current standards by using the plug in range of MCBs.

This time saving feature offers installers an economical alternative to full consumer unit replacement.

The range also includes SP&N switch fuses up to 100A allowing for submain circuit installation or system extensions/additions to be easily completed.





INSULATED-SWITCH FUSE

CAT REF	CURRENT RATING	NO. OF WAYS
104	45A	1
108	60A	1
160C	60A	1

'C' models supplied with cartridge fuse



INSULATED-MAIN SWITCH ISOLATOR

CAT REF	ISOLATOR RATING	NO. OF WAYS
204	45A	2
304	60A	3
404	60A	4
604	100A	6
804	100A	8



METAL-SWITCH FUSE

CAT REF	CURRENT RATING	NO. OF WAYS
106	45A	1
106RED	45A	1
108M	60A	1
160CM*	60A	1
110M/63*	63A	1
110M/80*	80A	1
110M*	100A	1

*Supplied complete with cartridge fuse



METAL-MAIN SWITCH ISOLATOR

CAT REF	ISOLATOR RATING	NO. OF WAYS
206	45A	2
306	60A	3
406	60A	4
606	100A	6



B6 B10 B16 B20 B32 B40

MCBs

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
B6	6A	WHITE
B10	10A	GREY
B16	16A	BLUE
B20	20A	YELLOW
B32	32A	RED
B40	40A	ORANGE



C5 C15 C20 C30 C35 C40 C45

CARTRIDGE FUSES (Including contact shield)

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
C5	5A	WHITE
C15	15A	BLUE
C20	20A	YELLOW
C30	30A	RED
C35	35A	ORANGE
C40	40A	ORANGE
C45	45A	GREEN

CAT REF	CURRENT RATING
L45	45A
L60	60A

} for use with 108, 145 & 160
type switch fuses



CARTRIDGE FUSE LINKS

CARTRIDGE FUSE LINKS

CAT REF	CURRENT RATING	CONTACT SHIELD COLOUR
CFL05	5A	WHITE
CFL10	10A	BLUE
CFL15	15A	BLUE
CFL20	20A	YELLOW
CFL30	30A	RED
CFL35	35A	ORANGE
CFL40	40A	ORANGE
CFL45	45A	GREEN

CARTRIDGE FUSE LINKS

CAT REF	CURRENT RATING
LFL45	45A
LFL60	60A
LFL63	63A
LFL80	80A
LFL100	100A

} for use with 108 or 108M

} for use with 110M
units only

ACCESSORIES

CAT REF	DESCRIPTION
FWC	Fusewire card 1m 5A, 15A, 30A
M10	Blank shield for unused ways



M10



RCD

100A 30mA
WRS100/2

RCD

32A 30mA
WRS32/2

RCD

80A 30mA
WRS80/2

LIFELINE RANGE

The Lifeline range of residual current devices, rcd's provides valuable additional protection to almost any type of installation by detecting earth fault current below the level sensed by traditional overcurrent devices such as fuses or miniature circuit breakers.

One of the largest ranges available in the UK today offers other features which include:-

- Fully shrouded terminals
- Contact position indication on the dolly handle
- Both Type AC and Type A (DC sensitive) devices available
- A range of enclosures from IP20 upto IP65
- Time delay versions available in 2 and 4 pole configurations



**WRS32/2****WRS80/2****WRS100/2****WRM100/2****WRS63/4****WRMT100/4****2 POLE RCDs – TYPE AC**

CAT REF	RATED CURRENT	SENSITIVITY
WRS16/2	16A	30mA
WRS25/2	25A	30mA
WRS32/2	32A	30mA
WRS40/2	40A	30mA
WRM40/2	40A	100mA
WRS63/2	63A	30mA
WRM63/2	63A	100mA
WRL63/2	63A	300mA
WRS80/2	80A	30mA
WRM80/2	80A	100mA
WRS100/2	100A	30mA
WRM100/2	100A	100mA
WRL100/2	100A	300mA

2 POLE RCDs DC SENSITIVE – TYPE A

CAT REF	RATED CURRENT	SENSITIVITY
WRDVS32/2	32A	10mA
WRDS40/2	40A	30mA
WRDM40/2	40A	100mA
WRDS63/2	63A	30mA
WRDS80/2	80A	30mA
WRDS100/2	100A	30mA
WRDM100/2	100A	100mA

4 POLE RCDs – TYPE AC

CAT REF	RATED CURRENT	SENSITIVITY
WRS32/4	32A	30mA
WRS40/4	40A	30mA
WRM40/4	40A	100mA
WRS63/4	63A	30mA
WRM63/4	63A	100mA
WRL63/4	63A	300mA
WRS100/4	100A	30mA
WRM100/4	100A	100mA
WRL100/4	100A	300mA

4 POLE RCDs DC SENSITIVE – TYPE A

CAT REF	RATED CURRENT	SENSITIVITY
WRDS40/4	40A	30mA
WRDM40/4	40A	100mA
WRDS63/4	63A	30mA
WRDM63/4	63A	100mA
WRDS100/4	100A	30mA
WRDM100/4	100A	100mA

TIME DELAY UNITS (100ms) TYPE S

CAT REF	DESCRIPTION	RATED CURRENT	SENSITIVITY
WRMT100/2	2P	100A	100mA
WRMT100/4	4P	100A	100mA



DIN ENCLOSURES

DIN MODULES	IP RATING	CAT REF INSULATED	CAT REF METAL
2	IP40	ESE2	ESM6
2	IP40	ESE2L*	-
2	IP54	-	ESM7
4	IP20	ESE4	-
4	IP40	ESi4	ESM8
4	IP54	-	ESM11
4	IP54	-	ESM13**

* Supplied with earth connection link

** Enclosure for larger cables



IP65 DIN ENCLOSURES AND ACCESSORIES

CAT REF	DESCRIPTION
WBE3	2/3 module enclosure
WBE4	4 module enclosure
WBE3/EK	Earth block
WBE3/NK	Neutral block
WBE4/EK	Earth block
WBE4/NK	Neutral block
WBE/BS	Blanks



NH INSULATED DIN ENCLOSURES

CAT REF	DESCRIPTION
NH4ED4	4 modules
NH7ED4	7 modules
NH10ED4	10 modules
NH13ED4	13 modules
NH16ED4	16 modules
NH21ED4	21 modules

Supplied with earth & neutral terminal bars cover and visor



NH METAL DIN ENCLOSURES

CAT REF	DESCRIPTION
NH4ED6	4 modules
NH7ED6	7 modules
NH10ED6	10 modules
NH13ED6	13 modules
NH16ED6	16 modules
NH21ED6	21 modules

Supplied with earth & neutral terminal bars cover and visor

SWITCH DISCONNECTORS & ISOLATORS

Wylex provide a range of isolators designed for applications where local isolation is required. The modular WS range of switches can be independently configured to provide a variety of live and neutral arrangements up to 4 poles.

In addition Wylex offer a range of enclosed switch disconnector isolators suitable for commercial and industrial applications up to 125A.

Rotary isolators can be locked in the off position and have facility for up to 3 padlocking devices for added safety and security.





921E

TRIPLE POLE & NEUTRAL 415V, 50HZ AC

CAT REF	DESCRIPTION	CURRENT RATING
921E	With switched neutral, surface mounting in a metal enclosure	32A
921X	With switched neutral, for loose mounting in an enclosure (Non DIN)	32A



NHSW363X

NH ISOLATOR SWITCHES STEEL ENCLOSURE

RATING	BOX SIZE	TP&N/SP&N
20A	1	NHSW320
32A	1	NHSW332
40A	1	NHSW340
63A	1	NHSW363
63A	2	NHSW363X
100A	2	NHSW3100
125A	2	NHSW3125



REC2S

REC4

SUPPLY AUTHORITY ISOLATOR ASSEMBLIES

CAT REF	DESCRIPTION	CURRENT RATING
REC2S	Slimline & DP Switch Enclosure	100A
REC2	DP Isolator & 4 Mod Enclosure	100A
REC3	TP Isolator & 4 Mod Enclosure	100A
REC4	4P Isolator & 4 Mod Enclosure	100A

A wide range of custom built variations is also available. Contact Wylex Technical for full details.



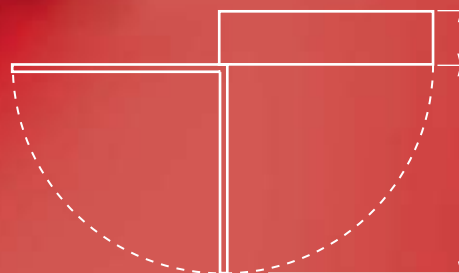
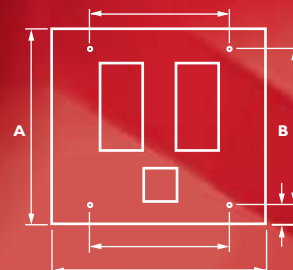
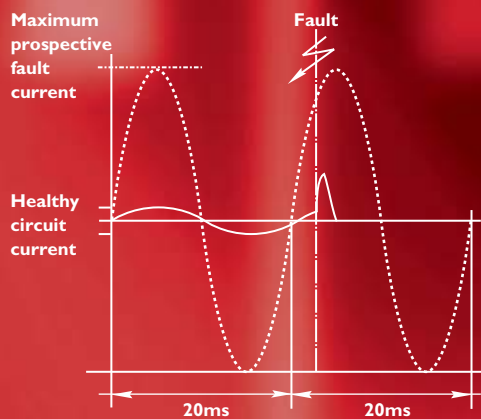
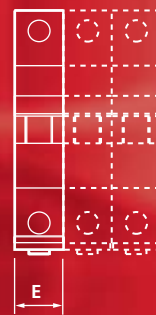
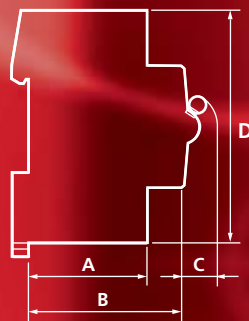
WS102

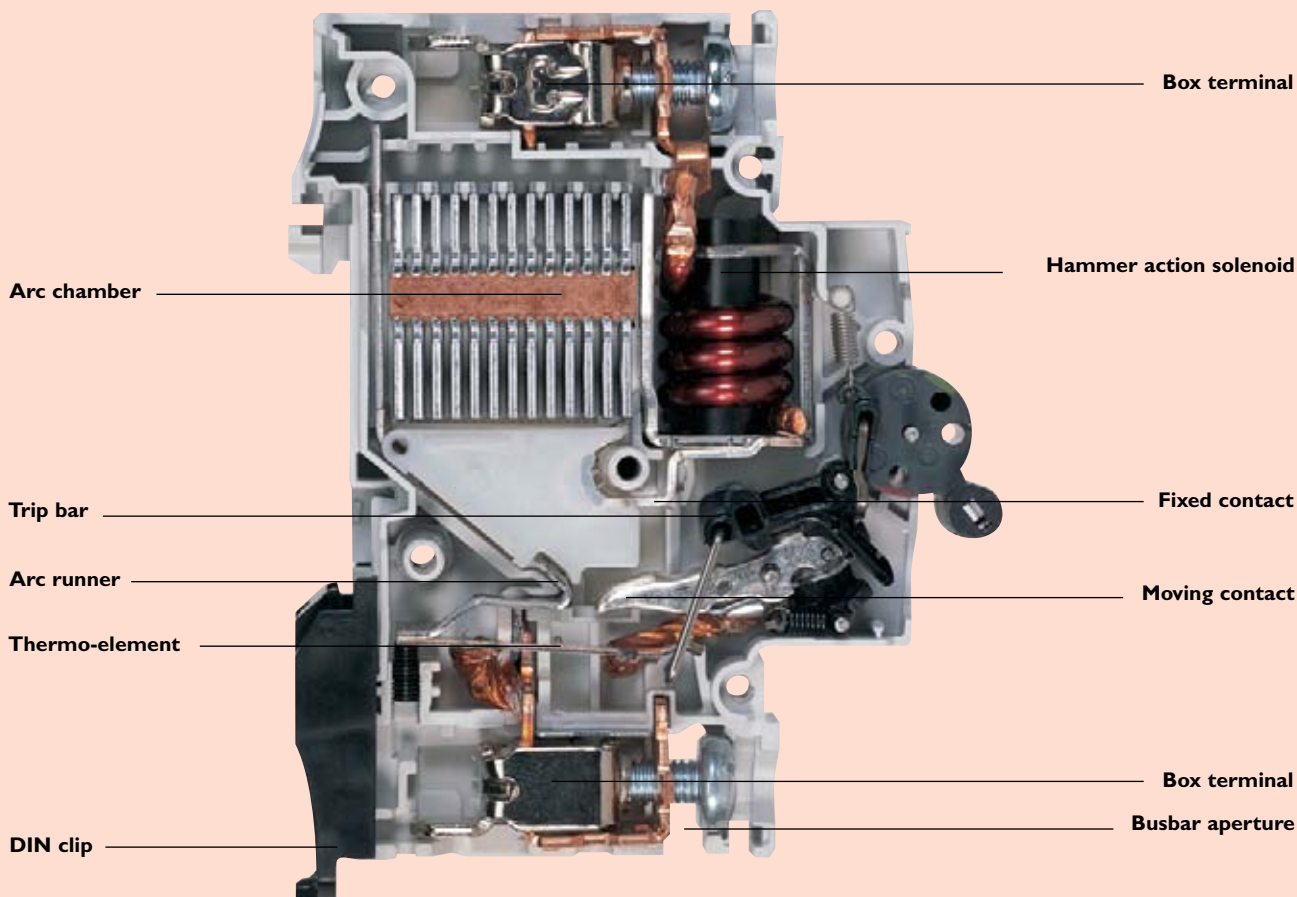
WS104

WS RANGE OF MODULAR ISOLATORS

CAT REF	DESCRIPTION	CURRENT RATING
WS601	1 Pole, 1 module	63A
WS101	1 Pole, 1 module	100A
WS121	1 Pole, 1 module	125A
WS602	2 Pole, 2 module	63A
WS102	2 Pole, 2 module	100A
WS122	2 Pole, 2 module	125A
WS603	3 Pole, 3 module	63A
WS103	3 Pole, 3 module	100A
WS123	3 Pole, 3 module	125A
WS604	4 Pole, 4 module	63A
WS104	4 Pole, 4 module	100A
WS124	4 Pole, 4 module	125A

TECHNICAL DATA & DIMENSIONS





GENERAL CONSTRUCTION

Wylex MCBs are of the thermal-magnetic current limiting type. MCBs have an easy to operate handle with a trip-free toggle mechanism – so even when the handle is held in the 'on' position the MCB is free to trip.

AMBIENT TEMPERATURE CONSIDERATIONS

Wylex MCBs are calibrated to meet the requirements of BS EN 60898, 30°C Ref Calibration Temperature.

At other temperatures the following rating factors should be used:

At 60°C 0.9 At 20°C 1.0 At 0°C 1.1

Adjacent thermal-magnetic MCBs should not be continuously loaded at or approaching their nominal rated currents when mounted in enclosures. It is good engineering practice to apply generous derating factors or make provision for adequate free air between devices. In these situations, and in common with other manufacturers, we recommend a 66% diversity factor is applied to the MCB nominal rated current where it is intended to load the MCBs continuously (in excess of 1 hour).

METHOD OF OPERATION

1 Moderate overload conditions

Detection of moderate overload conditions is achieved by the use of a thermo-metal element which deflects in response to the current passing through it. The thermo-metal element moves against the trip bar releasing the trip mechanism.

2 Short circuit conditions

When the current flowing through the MCB reaches a predetermined level, the solenoid directly pulls in the plunger which forcibly separates the contacts and simultaneously releases the trip mechanism.

3 Establishment of arc between fixed and moving contacts

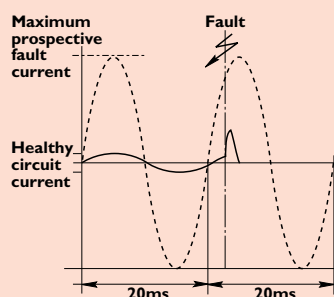
As the moving contact moves away from the fixed contact, an arc is established. The arc runs along the arc runner to the arc chamber where it is split up between the plates and extinguished.

The low inertia and consequent high speed of the moving contact has a limiting effect on the flow of fault current. The rapid development of the arc, together with its accelerated extinction in the arc chamber, BS EN 60898-2 gives a typical operating time of 3.5-5 milliseconds for a type B curve MCB.

CURRENT LIMITING ACTION

The high speed current limiting action ensures that the MCB operates before the full prospective fault current is allowed to develop. Under fault conditions, damage can be sustained to the installation and associated equipment due to the amount of energy that passes before the current is completely interrupted. The total energy let-through depends on the value of current and the time for which it flows, and is denoted by the symbol I^2t . The high speed current limiting action of MCBs ensures that the energy let-through and any subsequent damage is minimised. This reduced energy let-through assists greatly with both back-up and discrimination considerations.

CURRENT LIMITING EFFECT

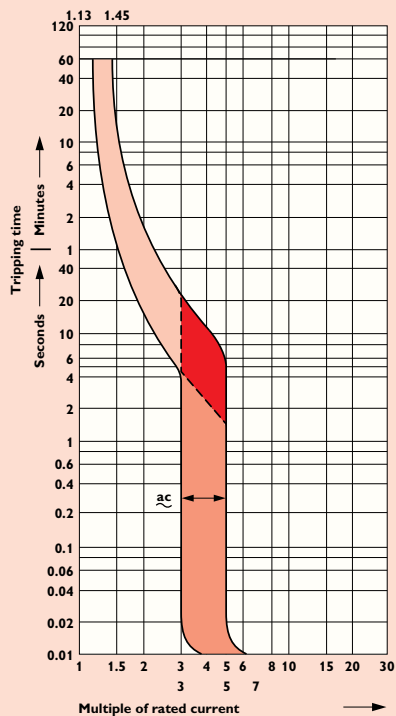


BACK-UP PROTECTION

Back-up protection is required only if the prospective short circuit current at the point of installation exceeds the breaking capacity of the MCB. When providing back-up protection consideration must be given to discrimination between the MCB and fuse.

DISCRIMINATION

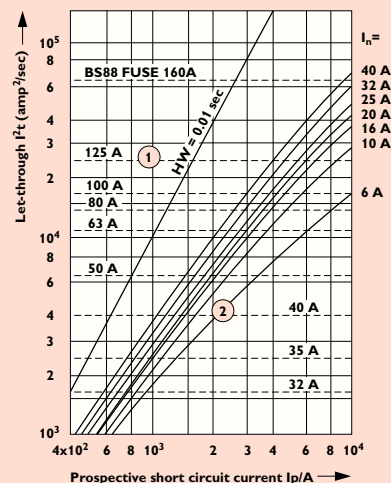
It is desirable that the protective device nearest the fault should operate first. The low energy let through of modern MCBs provides better discrimination with HRC fuse back-up than is given by earlier types of MCBs.



CONSUMER UNIT MCBs

Standards	BS EN 60898-2: 2006
Rated voltage (single pole)	240V
Tripping characteristics	Type B, C
Short circuit rating	6kA
Reference calibration temperature	30°C
Terminal capacity – outgoing cable	0.75 to 25mm ²

CAT REF	C CURVE	RATING
NSB03	-	3A
NSB06	WELC06	6A
NSB10	WELC10	10A
NSB16	WELC16	16A
NSB20	WELC20	20A
NSB25	-	25A
NSB32	WELC32	32A
NSB40	WELC40	40A
NSB50	WELC50	50A



- 1 min melting pt (pre-arching)
eg $I_n=125A$ BS 88
- 2 max let-through I^2t of MCB
eg 6A

NSB AND PSB DISTRIBUTION BOARD MCBs

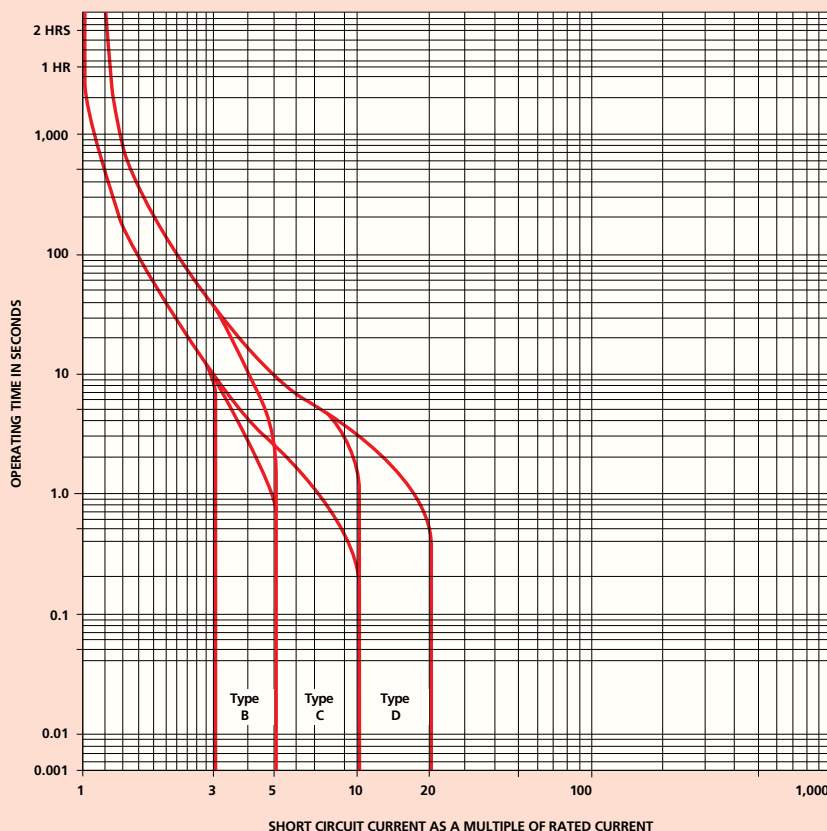
Standards	BSEN 60898-2: 2006
Rated Voltage	230/400 Volts
Tripping characteristics	Type B, C and D
Short circuit rating	6kA and 10kA
Reference calibration temperature	30°C
Terminal capacity - outgoing cable	0.75 to 25mm ²

NSBS & PSBS RCBO (COMBINED MCB/RCD)

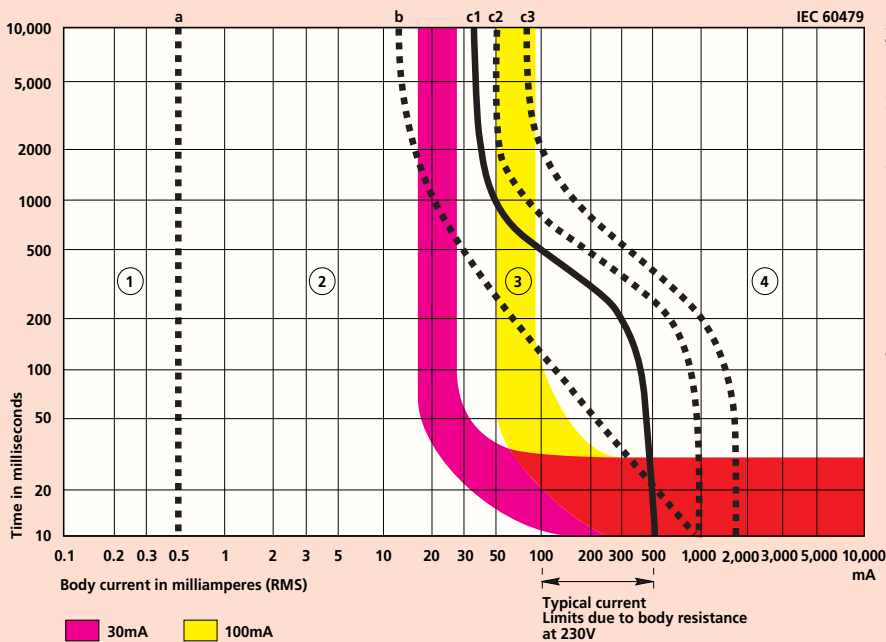
Standards	BSEN 61009-2: 1995 BSEN 61009-1: 2004
Rated Voltage	230 Volts -1 2004
SP or SP with switched neutral	
Tripping characteristics	NSBS=B,C PSBS=C
Short circuit rating	6kA and 10kA
Reference calibration temperature	30°C
Rated residual operating current	30mA
Single module	Type A
Two module	Type AC
Terminal capacity - outgoing cable	0.5 to 16mm ²

Unique live side busbar combi-terminal allows connection of cable up to 25mm²

Maximum neutral cable size 25mm²



TIME/CURRENT ZONES OF EFFECT OF AC CURRENT (15–100Hz) ON PERSONS



Zone Physiological effects

- 1 Usually no reaction effects (no danger).
- 2 Usually no harmful physiological effects (usually no effects).
- 3 Usually no organic damage to be expected. Likelihood of muscular contraction and difficulty of breathing, reversible disturbances of formation and conduction of impulses in the heart, and transient cardiac arrest without ventricular fibrillation increases with current magnitude and time.
- 4 In addition to the effects of zone 3, probability of ventricular fibrillation increased up to 5% (Curve C2), up to 50% (Curve C3) and above 50% beyond Curve C3. Increasing with magnitude and time, pathophysiological effects such as cardiac arrest, breathing arrest and heavy burns may occur.

FAULT CURRENT SENSITIVITY

As the equipment is fed from the mains electrical supply, in the event of an earth fault the presence of semi-conductors may result in the normal ac waveform being replaced by a non-sinusoidal fault current. In some cases the waveform may be rectified or chopped. These waveforms are said to contain a pulsating dc component which can either partially desensitise or totally disable a standard Type AC RCD. International standards IEC 61008 (RCCBs) and IEC 61009 (RCBOs) divide RCDs into two performance classes:

Type AC

RCDs for which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly arising.

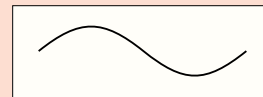
Type A

RCDs for which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly arising.

To ensure the correct level of protection, check for the following symbols:

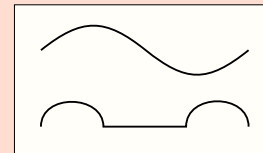
TYPE AC

normal ac sensitivity



TYPE A

pulsating dc sensitivity



Wylex RCDs are available as both Type AC and Type A devices.

OPERATION

The RCD employs the current balance principle which involves the supply conductors to the load (phase and neutral) being wound onto a common transformer core to form the primary windings. Under healthy circuit conditions, the current in the phase conductor is equal to the current in the neutral, and the vector sum of the current is zero. In the event of an earth fault, an amount of current will flow to earth, creating an out of balance situation in the transformer assembly. This out of balance is detected by the secondary winding of the transformer and at a pre-determined level of out of balance will activate the trip mechanism.

Single phase and neutral or three phase and neutral units (suitable for 3 or 4 wire systems) are available, the latter being suitable for balanced or unbalanced 3 phase loads.

The RCD trip mechanism will operate at a residual current of between 50–100% of its rating tripping current (sensitivity).

TRANSIENT EARTH LEAKAGE CURRENTS

All Wylex residual current devices incorporate a high level of immunity to tripping when subjected to transient earth leakage currents. Such transients can occur when there is a significant level of capacitance to earth as can result from cable capacitance (particularly MICC) or RF filter networks. Wylex RCDs are therefore less susceptible to nuisance tripping due to transient earth leakage currents.

RESIDUAL TRIPPING CURRENTS

10mA-

Used in special applications where additional protection against contact is essential due to the nature of the installation.

30mA-

Tripping current designated by the IEE Wiring Regulations to provide additional protection.

100mA-

Suitable for use where protection is provided to guard against firehazard, etc, rather than to provide additional protection to personnel, and where the earthing requirements need supplementing by RCD protection.

100mA time delay-

Suitable for use when total RCD protection is required to supplement the system earthing and where local 30mA RCDs are used to give additional protection. The time delay RCD will discriminate with the 30mA RCD.

300mA-

For use in large installations where plant and equipment protection are the main considerations and high levels of earth leakage are experienced.

If using RCDs in series, discrimination can only be achieved by using Type S devices in series with Types A or AC. See chart below.

BSEN61008-1:1995 RCBOs BSEN61009-1:1995

Type of RCD	Rated Residual Current (In) RCD to Trip between 50%-100% In	Tripping times			500Amps	Scope
		1x In	2x In	5x In		
Standard A & AC	Any Value, eg 10, 30, 100mA	300ms	150ms	40ms	40ms	Maximum-Trip
Time Delay (S)	Greater than 30mA, eg 100mA	500ms 130ms	200ms 60ms	150ms 50ms	150ms 40ms	Maximum-Trip Minimum-Non Trip

Under the latest 17th edition wiring regulations certain installations require "additional protection" on many MCB circuits that were not previously protected by the supplementary use of 30mA RCDs.

Extracts from the regulations and examples of these 'newly' protected RCD circuits are given in the summary table below.

SUMMARY TABLE

REGULATIONS	RELATING TO:	EXAMPLES	ADDITIONAL PROTECTION
411.3.3 *	Sockets up to 20A rating for general use by ordinary persons	Upstairs Sockets Downstairs Sockets Kitchen Sockets Cooker outlet with integral 13A socket Garage Sockets Plus any other sockets up to 20A rated	30mA RCD Taking into account 3.14.1 3.14.2 ****
701.411.3.3 **	All Circuits in a room with a fixed bath or shower	Shower circuit Lighting circuit Heating circuit Ventilation circuit Shaver Socket Plus Other circuits	30mA RCDs Taking into account 3.14.1 **** 3.14.2 ****
522.6.6 *** 522.6.7 522.6.8 and 560.7.1 ****	All circuits buried in a wall or partition at less than 50mm and without mechanical protection	Downstairs Lighting Upstairs Lighting Immersion heater Smoke Alarms Burglar Alarm (Safety service) Plus any other circuits	30mA RCD Taking into account 3.14.1 3.14.2

Note: Each circuit may have more than one reason for additional protection by 30mA RCD eg: firstly because of the equipment ie: a socket outlet and secondly because of the cable installation method. Additional protection is provided as additional protection. It does not obviate the need for circuit protection by circuit breakers or fuses.

- * Regulation 411.3.3 socket outlets with a rated current not exceeding 20A that are for general use by ordinary persons (exemption may be permitted).
- ** Regulation 701.411.3.3 Additional protection shall be provided for all circuits of the location by use of one or more 30mA RCD.
- *** Regulations 522.6.6 522.6.7 522.6.8 cables concealed in a wall or partition at less than 50mm depth and without earthed mechanical protection e.g. conduit.
- **** Regulation 314.1 Every installation shall be divided into circuits as necessary to avoid danger and inconvenience in the event of a fault, take account of danger that may arise from the failure of a single circuit such as a lighting circuit, reduce the possibility of unwanted tripping of RCDs etc.
- **** Regulation 314.2 Separate circuits to be provided for parts of the installation that need to be separately controlled in such a way that those circuits are not affected by the failure of other circuits.
- **** Regulation 560.7.1 Chapter 56 circuits for safety services shall be independent of other circuits.

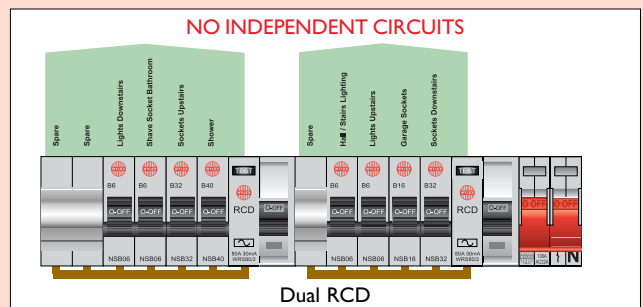
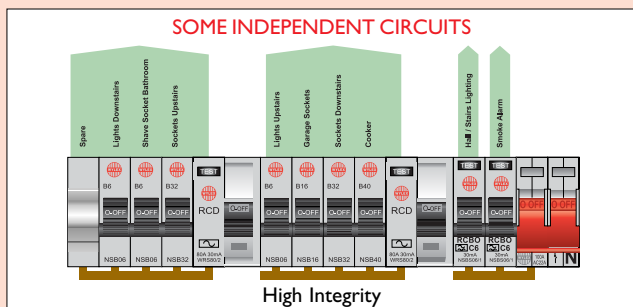
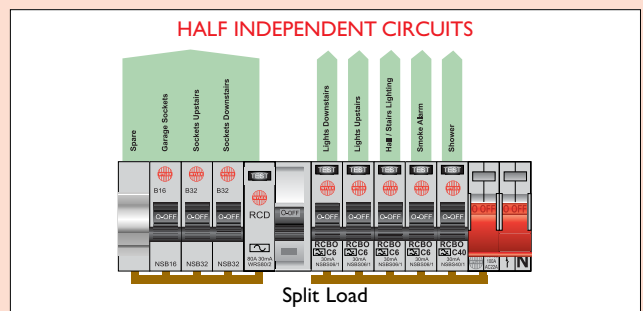
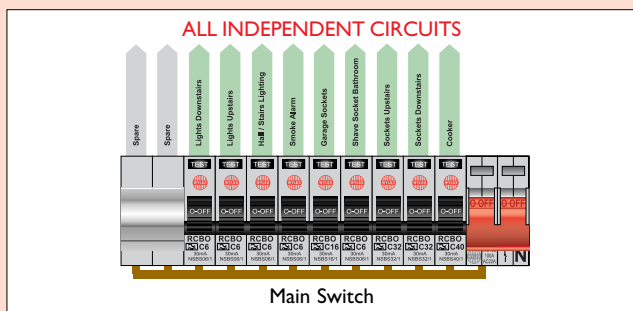
In addition Chapter 51 requires designers/installers to take account of all relevant British Standards and manufacturers instructions. For example BS5839 Part 6 is the British Standard for fire detection and alarm systems in dwellings. It states that power supplies to Grade D smoke alarms should be an independent circuit at the consumer unit, or a separately electrically protected local lighting circuit.

British Standards and IEE regulations are subject to change and amendments. This guide to Wylex consumer units is not a substitute for the regulations which should always be used for all types of electrical installation design and installation work.



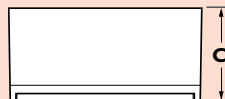
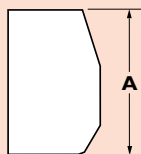
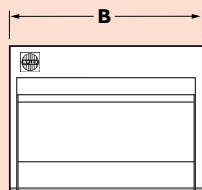
Solution 17

CONSUMER UNIT SELECTION GUIDE



30mA Earth leakage Protection

INSULATED CONSUMER UNITS



DIMENSIONS

A=160mm(6.3"), B=117mm(4.6"), C=102mm(4")

4 MODULE

NH204/40	NHRM204/40
NH204/63	NHRM204/63
NHRS204/40	NH4ED4
NHRS204/63	

DIMENSIONS

A=230mm(9"), B=187mm(7.5"), C=120mm(4.7")

7 MODULE

NH504	NHRM504
NHRS504	NHTM504
	NH7ED4

DIMENSIONS

A=230mm(9"), B=239mm(9.6"), C=120mm(4.7")

10 MODULE

NH804	NHRS3304
NHRS804	NHRS4204
NHRM804	NH504+3
NHSTM2404	NHRS504+3
NHSTM3304	NHTM804
NHSTM4204	NH10ED4
NHRS2404	NHIX3304
NHIX2404	
NHRS6SL	

DIMENSIONS

A=230mm(9"), B=290mm(11.5"), C=120mm(4.7")

13 MODULE

NH1104	NHRS9SL	NHRS23204
NHRS1104	NHRS3604	NHRS7SSLHI
NHRM1104	NHRS6304	
NHSTM3604	NHIX5404	
NHSTM4504	NHIX4504	
NHSTM5404	NH804+3	
NHSTM6304	NHRS804+3	
NHRS5404	NHTM1104	
NHRS4504	NH13ED4	

DIMENSIONS

A=230mm(9"), B=340mm(13.5"), C=120mm(4.7")

16 MODULE

NH1404	NHRS9304
NHRS1404	NHIX7504
NHRM1404	NHIX6604
NHSTM3904	NHIX5704
NHSTM4804	NHRSX5704
NHSTM5704	NHRSX6604
NHSTM6604	NHRSX7504
NHIX3904	NHTM1404
NHIX4804	NH804+6
NHSTM7504	NH1104+3
NHSTM8404	NHRS804+6
NHSTM9304	NHRS1104+3
NHRS3904	NH16ED4
NHRS4804	NHIS5504
NHRS6604	NHIS10SL
NHRS5704	NHRS10SSLHI
NHRS7504	NHRS44204
NHRS8404	NHRS43304
NHRS12SL	NHRS33404

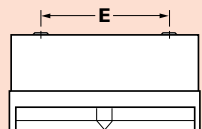
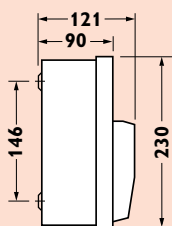
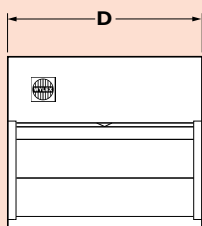
DIMENSIONS

A=230mm(9"), B=435mm(17.3"), C=120mm(4.7")

21 MODULE

NH1904	NHRS9804	NHIS15SL
NHRS1904	NHRS8904	NHRS15SSLHI
NHRM1904	NHRS51204	NHRS76204
NHSTM12504	NHIX9804	NHRS66304
NHSTM11604	NHIX8904	NHRS46504
NHSTM8904	NHRSX8904	NHRS55504
NHSTM9804	NHRSX9804	NHRS45604
NHSTM10704	NHRS6504+6	
NHSTM71004	NHRS5604+6	
NHSTM61104	NHRS7704+3	
NHSTM51204	NHRS8604+3	
NHRS12504	NHRS6804+3	
NHRS11604	NHTM1904	
NHRS10704	NH21ED4	
NHRS61104	NHIS8704	
NHRS17SL	NHIX11604	
NHRS71004	NHIX51204	

METAL CONSUMER UNITS



DIMENSIONS

209(H) 117(W) 90(D) 120(D)

4 MODULE

NH206/40	NHRS206/40
NH206/63	NHRS206/63

DIMENSIONS

D=188mm(7.4"), E=107mm(4.2")

7 MODULE

NH506	NHRS506
NHTM506	NHRM506
NH7ED6	

DIMENSIONS

D=241mm(9.5"), E=160mm(6.3")

10 MODULE

NHRM806	NH806
NH10ED6	NHRS806
NHRS2406	NHSTM2406
NHRS3306	NHSTM3306
NHRS4206	NHTM806
NHRS6SLM	

DIMENSIONS

D=292mm(11.5"), E=210mm(8.3")

13 MODULE

NHRM1106	NHRS806+3	NHRS23206
NHSTM3606	NHRS1106	NHRS7SSLMHI
NH1106	NHRS806+3	
NHRS4506	NHRS5406	
NHSTM5406	NH13ED6	
NH806+3	NHSTM4506	
NHRS5406	NHRS6306	
NHRS9SLM	NHTM1106	
NHIX2406	NHIX3306	

DIMENSIONS

D=353mm(13.5"), E=260mm(10.2")

16 MODULE

NH1406	NHSTM6606	NHIS10SLM
NHRS1106+3	NHRS3906	NHRS44206
NHRS4806	NHSTM7506	NHRS43306
NHRS1406	NHRM806+6	NHRS33406
NHRM1106+3	NHTM1406	
NHRS6606	NHRS12SLM	
NHRS10SSLMHI	NH16ED6	
NHRM1406	NH1106+3	
NH806+6	NHSTM8406	
NHRS7506	NHIS5506	

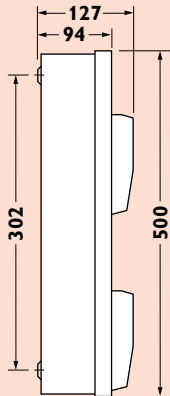
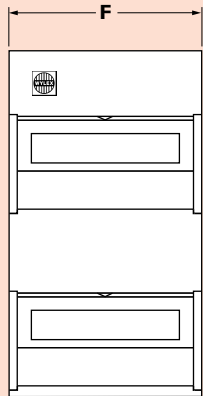
DIMENSIONS

D=438mm(17.2"), E=235.7mm(10.1")

21 MODULE

NH1906	NHRS1906	NHIS8706
NHRS61106	NHRS8906	NHIS15SLM
NHRS9806	NHSTM71006	NHRS76206
NHRS17SLM	NHSTM9806	NHRS66306
NHSTM9806	NHRS5606+6	NHRS46506
NH21ED6	NHTM1906	NHRS55506
NHSTM8906	NHIX51206	NHRS45606
	NHIX11606	NHRS15SSLMHI

DUPLEX METAL



DIMENSIONS
F=241mm (9.5"), G=160mm (6.3")
10 MODULE

NHDIS88	NHDRS12HI
NHDIIX88	NHDRS14SSLHI
NHDISX88	

DIMENSIONS
F=292mm (11.5"), G=210mm (8.3")
13 MODULE

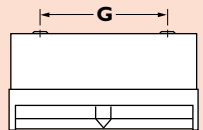
NHDIS1111	NHDRS18HI
NHDIIX1111	NHDRS20SSLHI
NHDISX1111	NHDISS119

DIMENSIONS
F=343mm (13.5"), G=260mm (10.2")
16 MODULE

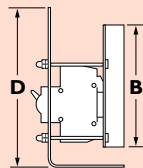
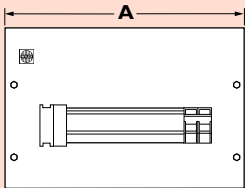
NHDIS1414	NHDRS24HI
NHDIIX1414	NHDRS26SSLHI
NHDISX1414	NHDISS1214

DIMENSIONS
F=430mm (17.2"), G=235mm (10.1")
21 MODULE

NHDIS1919	NHDRS34HI
NHDIIX1919	NHDRS36SSLHI
NHDISX1919	



SKELETON

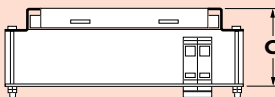


DIMENSIONS
A=333mm (13.2"), B=165mm (6.5"), C=90mm (3.5")
D=230mm (9")

FALNHR8SSL	FALNHIS5506
FALNHIS4606	FALNHIS10SL
FALNHR10SL	FALNH806

DIMENSIONS
A=444mm (17.5"), B=165mm (6.5"), C=90mm (3.5")
D=230mm (9")

FALNHR13SSL	FALNHIS8706
FALNHIS15SL	FALNHR46506
FALNHR55506	FALNHR566306
FALNHR576206	FALNHR15SL
FALN1206	FALNH1706



STANDARDS

Consumer units Designed to BS5486 Part 13: 1989 Factory Built Assemblies BSEN60439-3 when fully assembled. Degree of protection IP2X to BS EN60529.

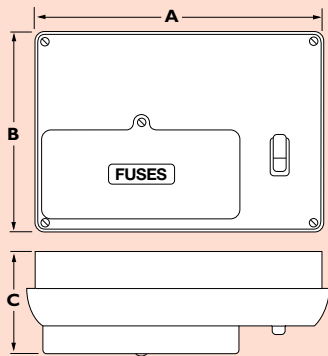
Switches BS5419. Double pole 240V 50Hz. Category of duty AC21 or BS EN 60947-3.

RCDs 30mA BS EN 61008.

RCBOs 30mA BS EN 61009.

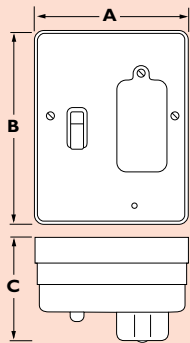
MCBs B,C,D Switching Curve BS EN 60898.

STANDARD RANGE



INSULATED-MAIN SWITCH ISOLATOR

CAT REF	DIMENSIONS		
	A	B	C
104	98	121	68
204	125	120	70
304	190	155	95
404	190	155	95
604	272	186	103
804	323	186	103
108/160/160C	143	178	99



METAL-MAIN SWITCH ISOLATOR

CAT REF	DIMENSIONS		
	A	B	C
206	140	131	93
306	210	153	99
406	210	153	99
606	293	210	104

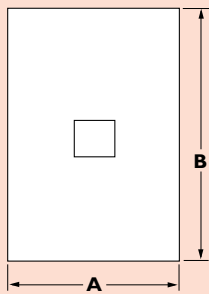
METAL-45A AND 60A SWITCHFUSES

CAT REF	DIMENSIONS		
	A	B	C
106	112	131	80
108M/160CM	172	242	98

METAL-100A DOUBLE POLE SWITCHFUSE

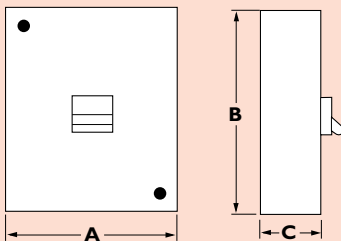
CAT REF	DIMENSIONS		
	A	B	C
110M	178	305	76
110M/80	178	305	76
110M/63	178	305	76

ENCLOSURES



CAT REF	IP RATING	DIMENSIONS	
		A	B
ESE2	IP40	60	153
ESE2L	IP20	60	140
WBE3	IP65	85	160
ESI4	IP40	100	150
ESM6	IP40	90	225
ESM7	IP54	90	225
ESE4	IP20	77	140
WBE4	IP65	110	160
ESM11	IP54	120	225
ESM13	IP54	137	318
ESM8	IP40	120	225

ISOLATORS



CAT REF	DIMENSIONS			Terminal Capacity
	A	B	C	
832A	62	76	30	10
860A	57	79	29	25
810X	53	94	77	35
810A	58	170	77	35
810E	76	203	76	35

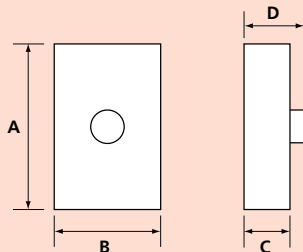
CAT REF	DIMENSIONS			Terminal Capacity
	A	B	C	
921X	72	45	48	10
921E	114	133	61	10
REC2S	78	150	65	50
REC2	100	150	65	50
REC3	100	150	65	50
REC4	100	150	65	50

TECHNICAL INFORMATION

Sheet Steel Enclosure

RATING IN AMPS	20A	32A	40A	63A	63A*	100A	125A
Rated Insulation Voltage Ui (V)	800	800	800	800	800	800	800
Dielectric Strength (kV) 50 Hz 1min	3	3	3	3	3	3	3
Shock Resistance Uimp (kV)	8	8	8	8	8	8	8
OPERATIONAL CURRENT IE (A)							
415 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	63	80	80	80
500 V AC - AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	125
AC23A / AC23B	20	32	40	40	63	63	63
690 V AC - AC20A / AC20B	20	32	40	63	80	100	125
AC21A / AC21B	20	32	40	63	80	100	125
AC22A / AC22B	20	32	40	63	80	100	100
AC23A / AC23B	20	25	25	25	50	50	50
MOTOR POWER (KW) AC 23							
415 V AC	7.5	11	11	15	18.5	37	40
500 V AC	7.5	11	15	18.5	22	37	37
690 V AC	11	11	18.5	18.5	25	30	30
FUSE TYPES TO BS88							
OVERLOAD CAPACITY							
Fuse rating gG	20	32	40	63/40	63	100	125
Short circuit current with fuses (kA Rms)	50	50	50	20/50	50	20	15
Asymmetric short time rating current (kA peak)	6	6	6	9	9	9	9
Admissible short time current 1 s. (kA Rms)	1.26	1.26	1.26	1.5	1.5	1.5	1.5
MAKING & BREAKING CHARACTERISTICS							
Breaking capacity (A Rms) 415 V AC 23 A	160	256	320	504	504	640	640
Making capacity (A Rms) 415 V AC 23 A	200	320	400	630	630	800	800
WITHSTAND							
Mechanical (number of operations) x 1000	100	100	100	100	30	30	30
Electrical (number of operations at 415V AC 23A) x 1000	3	3	3	3	1.5	1.5	1.5
CONNECTION							
Maximum Cu cable section (mm ²) lth using stranded cable (mm ²)	16	16	16	16	50	50	50
WEIGHT (KG)							
3 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50
4 pole	2.00	2.00	2.00	2.00	2.50	2.50	2.50

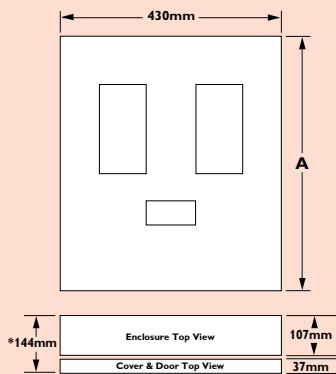
DIMENSIONS



CAT REF	BOX SIZE	HEIGHT (A)	WIDTH (B)	DEPTH (C)	TOTAL DEPTH (D)
NHSW320	1	220mm	158mm	136mm	172.5mm
NHSW332	1	220mm	158mm	136mm	172.5mm
NHSW340	1	220mm	158mm	136mm	172.5mm
NHSW363	1	220mm	158mm	136mm	172.5mm
NHSW363X	2	325mm	158mm	136mm	172.5mm
NHSW3100	2	325mm	158mm	136mm	172.5mm
NHSW3125	2	325mm	158mm	136mm	172.5mm

STANDARDS

Switches	Multipole: 415V 50Hz BSEN 60947-3 1992 Category of duty AC22A
MCBs	BSEN 60898: 1991 Type B, C and D
Short circuit rating	6 & 10kA
Distribution Boards	BS EN 60439-3
Degree of Protection.	For indoor use only (IP3X)



* including fixing feet which are 3.5mm high

CONSTRUCTION

Wylex NH MCB distribution board enclosures are fabricated in heavy gauge steel and are rust protected and highly resistant to both weathering and mechanical damage. Incorporated in the distribution boards are multi-terminal dual earth and neutral bars. They are designed for ease of installation and have ample wiring space.

The WYLEX PSB miniature circuit breakers are rated at 10kA and are of the fault limiting type.

125A DISTRIBUTION BOARDS

CAT REF	DIMENSION A mm
NHTN4	488.4
NHTN6	569.4
NHTN8	650.4
NHTN12	812.4
NHTN16	893.4
NHTN20	974.4
NHTN24	1136.4

Depth 165mm - all sizes

When a short circuit occurs, the current operates a solenoid which trips the mechanism and forces the moving contact away from the fixed contact. The arc generated is forced into an arcing chamber which incorporates splitter plates, to divide and cool it, reducing the total operating time to less than 5ms. This high speed operation substantially reduces the 'let through' energy (I^2t) keeping additional damage at the point of the fault to a minimum. Additionally this allows discrimination with HRC fuses at high fault levels.

250A DISTRIBUTION BOARDS

CAT REF	DIMENSION A mm
NHTN2540	650
NHTN2560	815
NHTN2580	815
NHTN25120	895
NHTN25160	975
NHTN25200	1085
NHTN25240	1190

NHTN METER PACKS

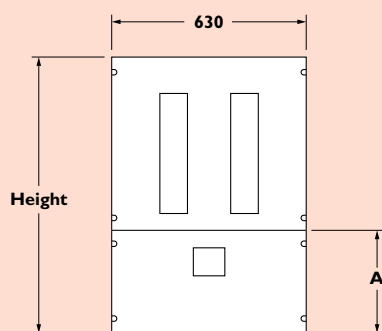
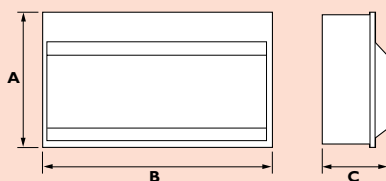
CAT REF	DIMENSIONS		
	A mm	B mm	C mm
NHTN125MP	245	430	144
NHTN250MP	245	430	144

NHAB DIN ACCESSORY BOXES

CAT REF	DIN MODULES	DIMENSION A mm
NHEB	-	240
NHEB/DIN	18	240
NHAB	18	240
NHAB2	36	387
NHAB3	54	544
NHAB4	72	756
NHAB5	90	856

SINGLE PHASE DISTRIBUTION BOARDS

CAT REF mm	DIMENSIONS		
	A mm	B mm	C
NHSPN0051	210	188	105
NHSPN0081	210	242	105
NHSPN00111	210	293	105
NHSPN00141	210	343	105
NHSPN00161	210	394	105
NHSPN00191	210	394	105



Depth 165mm - all sizes

200A-250A PANEL BOARDS

MODULAR HEIGHT	HEIGHT (mm)	A(mm)	CAT REF
17	902	420	NHPB6SW250
17	902	420	NHPB8SW250
20	1060	420	NHPB12SW250
17	902	420	NHPB6CB200
17	902	420	NHPB8CB200
20	1060	420	NHPB12CB200

400A PANEL BOARDS

MODULAR HEIGHT	HEIGHT (mm)	A(mm)	CAT REF
20	1060	577.5	NHPB6SW400
20	1060	577.5	NHPB8SW400
23	1317	577.5	NHPB12SW400
26	1375	577.5	NHPB16SW400
20	1060	577.5	NHPB6CB400
20	1060	577.5	NHPB8CB400
23	1317	577.5	NHPB12CB400
26	1375	577.5	NHPB16CB400



Depth 165mm - all sizes

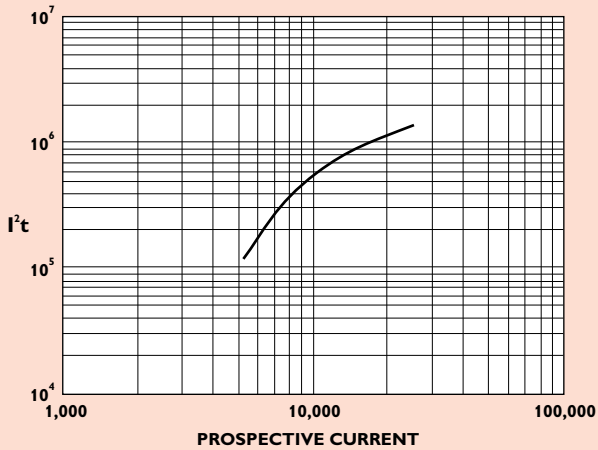
NH125 MODULAR MCB/DIN ENCLOSURES

MODULAR HEIGHT	HEIGHT (mm)	CAT REF
4	210	TO ORDER
8	420	TO ORDER

NH 125 G FRAME METER PACKS

CAT REF	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)
NHG250MP	210	630	165
NHG400MP	210	630	165

NHG MCCBs TECHNICAL SPECIFICATION



SHORT CIRCUIT BREAKING CAPACITY

Type	GB	GN
Ue	Icu	Icu
	SP/TP	TP
220 V	30	30
380 V	16	25
415 V	16	25

Ics = 50% Icu

INSTANTANEOUS TRIP BANDS

	SP	TP
25 – 32A	500A	400A
40 – 80A	800A	600A
100 – 125A	1250A	600A
Non-adjustable		±10%

TERMINALS

Front-connected clamps –
 25A to 125A – 70mm² cable
 – 10mm strip

NHG MCCB SPECIFICATION

• Specification	BSEN60947-2
• Current Range	16 – 125A
• Ue Rated Operation Voltage	240V SP 415V TP
• Ui Rated Insulation Voltage	500V AC
• Rated Frequency	50/60Hz
• Release	Thermal Magnetic
• Adjustment	None
• Ambient Range	-20°C to 55°C
• Humidity Range	0 – 90%
• Weight	SP - 0.4kg TP - 0.95kg
• Mechanical Duration	8000 operations

AUXILIARY EQUIPMENT

NHG MCCBs

Auxiliary Contact Ratings (A)

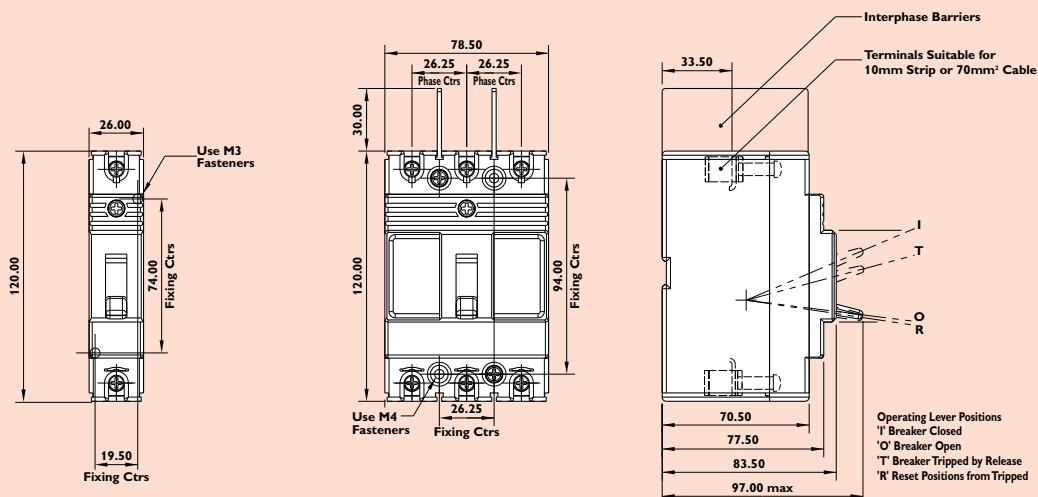
	Voltage	Resistive Load (A)	Tungsten Load (A)	Inductive Load (A)
AC				
125		3	0.5	0.5
250		3	0.5	0.5
DC				
30		3	3	0.5
50		1	0.7	0.7
125		0.5	0.4	0.4

MAXIMUM EARTH LOOP IMPEDANCES FOR TRIPLE POLE MCCBS Zs (ohms) for Uo = 240V~

Current Rating (A)	16/25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.17Ω	0.17Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω	0.13Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω

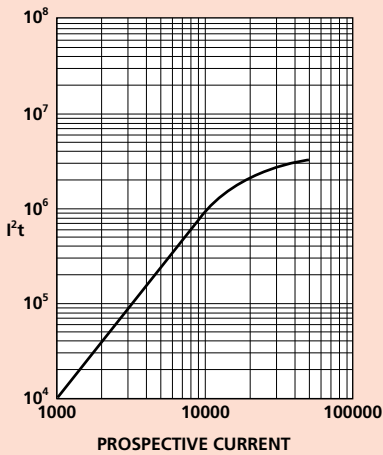
MAXIMUM EARTH LOOP IMPEDANCES FOR SINGLE POLE MCCBS Zs (ohms) for Uo = 240V~

Current Rating (A)	16/25	32	40	50	63	80	100	125
0.4 Seconds Disconnection Time	0.43Ω	0.43Ω	0.27Ω	0.27Ω	0.27Ω	0.27Ω	0.17Ω	0.17Ω
5.00 Seconds Disconnection Time	0.96Ω	0.75Ω	0.60Ω	0.48Ω	0.38Ω	0.30Ω	0.24Ω	0.19Ω



NHJ FRAME SPECIFICATION

• Specification	BSEN60947-2
• Current Range	16 – 200A
• Ue Rated Operation Voltage	240V SP 415V TP
• Ui Rated Insulation Voltage	660V AC
• Rated Frequency	50/60Hz
• Release	Thermal Magnetic
• Thermal Adjustment	0.7 - 1.0 x Rated Current
• Instantaneous Adjustment	Non - Adjustable
• Short Circuit Breaking Capacity	Icu at 415V = 25kA, Ics =75% Icu
• Ambient Range	-20°C to 55°C
• Humidity Range	0 – 90%
• Weight	SP - 0.7kg TP - 1.8kg TP & Sw N - 2.4kg



OPTIONS

- Padlocking
- Terminal Shrouds

SHORT CIRCUIT BREAKING CAPACITY

Ue	Icu
220 V	50kA
380 V	32kA
415 V	25kA
Ics = 75% Icu	

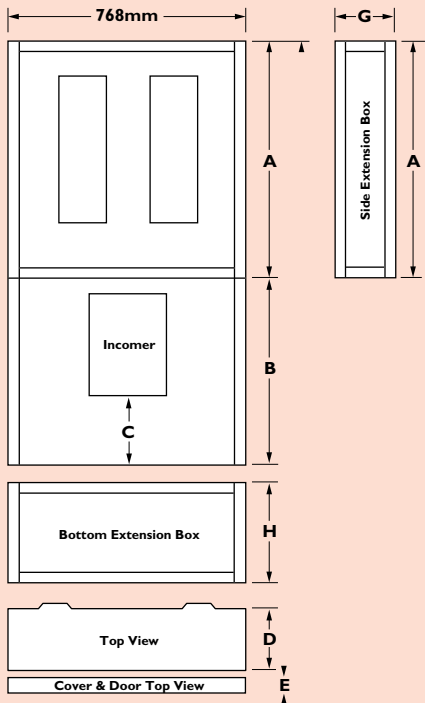
TERMINALS

Front-connected clamps –
25A to 200A – 120mm² solid / 150mm² stranded

INSTANTANEOUS TRIP BANDS

25 – 63A	400A
80 – 125A	800A
160 – 200A	1600A

J FRAME DIMENSIONS



400A

	4 WAY	8 WAY	12 WAY	16 WAY
A Out Going Height	576mm	768mm	960mm	1162mm
B Incomer Height	768mm	768mm	768mm	768mm
C Cabling Room	460mm	460mm	460mm	460mm
D Depth	265mm	265mm	265mm	265mm
E Depth of Door	32mm	32mm	32mm	32mm

630A

	4 WAY	8 WAY	12 WAY	16 WAY
A Out Going Height	576mm	768mm	960mm	1162mm
B Incomer Height	768mm	768mm	768mm	768mm
C Cabling Room	460mm	460mm	460mm	460mm
D Depth	265mm	265mm	265mm	265mm
E Depth of Door	32mm	32mm	32mm	32mm

800A

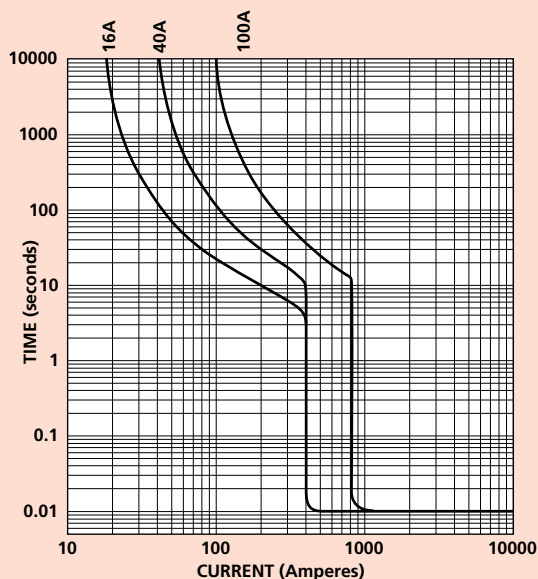
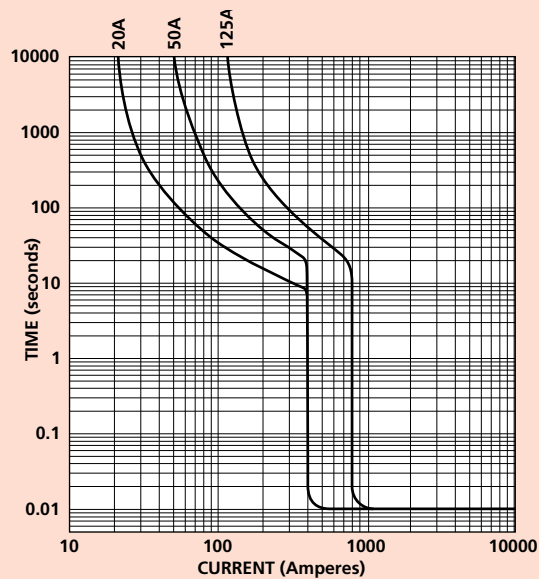
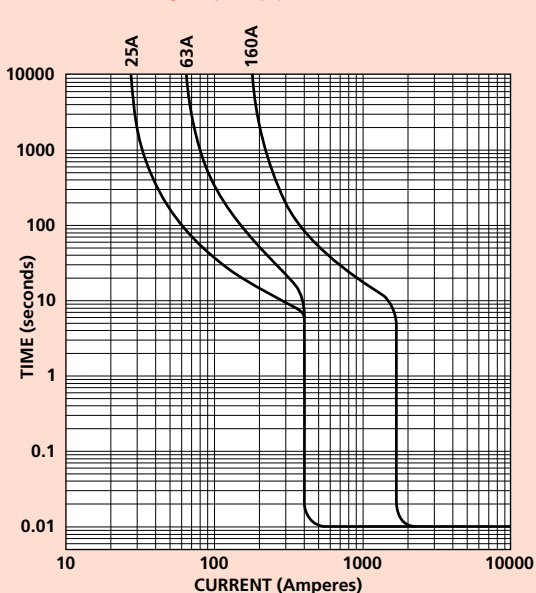
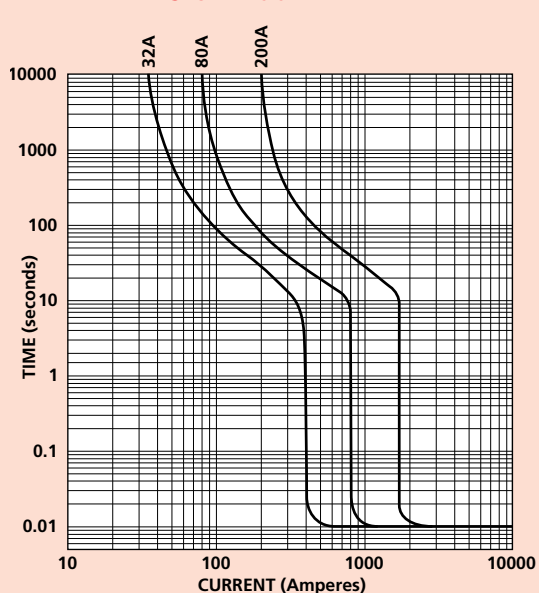
	4 WAY	8 WAY	12 WAY	16 WAY
A Out Going Height	576mm	768mm	960mm	1162mm
B Incomer Height	960mm	960mm	960mm	960mm
C Cabling Room	440mm	440mm	440mm	440mm
D Depth	265mm	265mm	265mm	265mm
E Depth of Door	32mm	32mm	32mm	32mm

SIDE EXTENSION BOXES

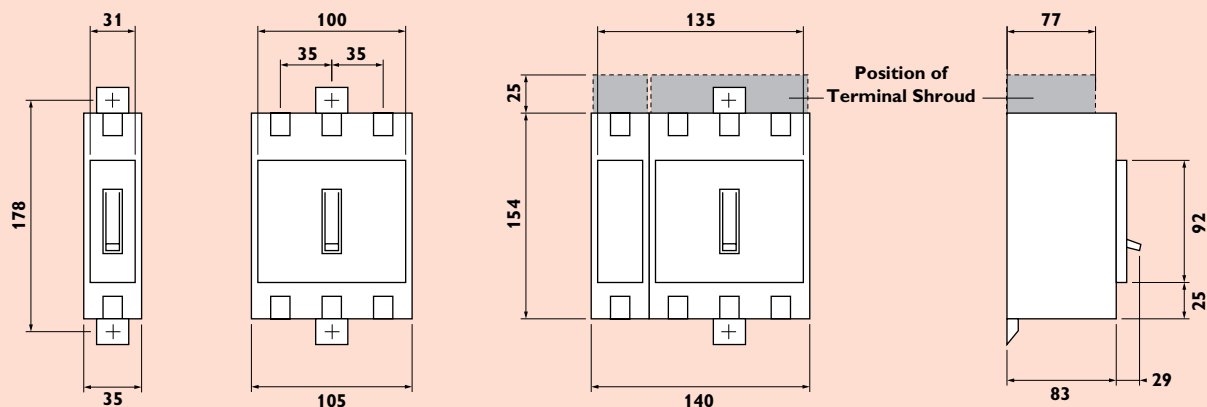
A Out Going Height	576mm	768mm	960mm	1162mm
G Width	288mm	288mm	288mm	288mm
D Depth	265mm	265mm	265mm	265mm

BOTTOM EXTENSION BOXES

H Height (3 Mod)	576mm	576mm	576mm	576mm
D Depth	265mm	265mm	265mm	265mm

J 16-100 AMP**J 20-125 AMP****J 25-160 AMP****J 32-200 AMP****WYLEX NH J FRAME MAXIMUM EARTH LOOP IMPEDANCES Z_s (ohms) for $U_o = 240V\sim$**

Current Rating (A)	16/20/25	32	40	50	63	80	100	125	160	200
0.4 Seconds Disconnection Time	0.500 Ω	0.500 Ω	0.500 Ω	0.500 Ω	0.500 Ω	0.250 Ω	0.250 Ω	0.250 Ω	0.125 Ω	0.125 Ω
5.00 Seconds Disconnection Time	0.500 Ω	0.500 Ω	0.500 Ω	0.500 Ω	0.500 Ω	0.250 Ω	0.250 Ω	0.250 Ω	0.125 Ω	0.125 Ω



CONTACTORS

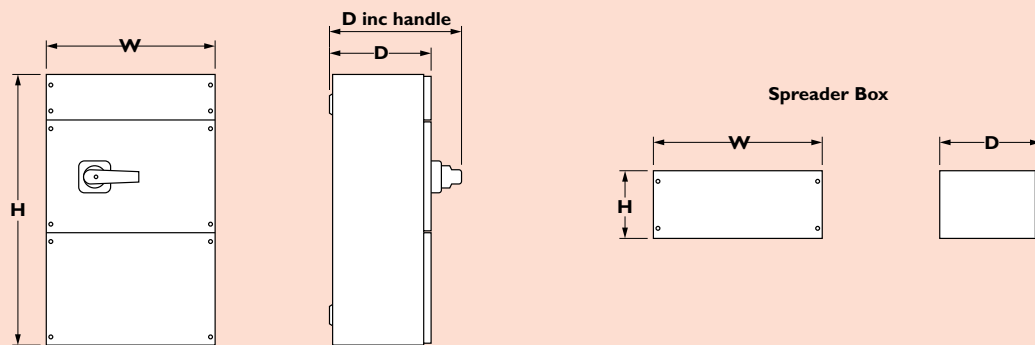
TYPE	POWER (W)	C(yF)	I(A)	MESB-20NC MESB-20NO	MESB-24NC MESB-24NO	MESB-40NC MESB-40NO	MESB-63NC MESB-63NO
Incandescent Lamps	60	-	0.26	23	29	65	85
	100	-	0.43	14	16	40	50
	200	-	0.87	7	8	20	25
	500	-	2.17	3	3	8	10
	1000	-	4.35	1	1	4	5
Flourescent Lamps uncorrected and Series correction	18	-	0.37	22	24	90	140
	24	-	0.35	22	24	90	140
	36	-	0.43	17	20	65	95
	58	-	0.67	14	17	45	70
Flourescent Lamps lead-lag circuit	18	-	0.11	2 x 30	2 x 40	2 x 100	2 x 150
	24	-	0.14	2 x 24	2 x 31	2 x 78	2 x 118
	36	-	0.22	2 x 17	2 x 24	2 x 65	2 x 95
	58	-	0.35	2 x 10	2 x 14	2 x 40	2 x 60
Flourescent Lamps Parallel correction	18	4.5	0.12	7	8	48	73
	24	4.5	0.15	7	8	48	73
	36	4.5	0.2	7	8	48	73
	58	7	0.32	4	5	31	47
Flourescent Lamps with electronic ballast units (EVG)	1 x 18	-	0.09	25	35	100	140
	1 x 36	-	0.16	15	20	52	75
	1 x 58	-	0.25	14	19	50	72
	2 x 18	-	0.17	12	17	50	70
	2 x 36	-	0.32	7	10	26	38
	2 x 58	-	0.49	7	9	25	36
High-pressure Mercury-vapour Lamps uncorrected	50	-	0.61	14	18	38	55
	80	-	0.8	10	13	29	42
	125	-	1.15	7	9	20	29
	250	-	2.15	4	5	10	15
	400	-	3.25	2	3	7	10
	700	-	5.4	1	2	4	6
High Pressure Mercury-vapour Lamps Parallel correction	1000	-	7.5	1	1	3	4
	50	7	0.28	4	5	31	47
	80	8	0.41	4	5	27	41
	125	10	0.65	3	4	22	33
	250	18	1.22	1	2	12	18
	400	25	1.95	1	1	9	13
Halogen metal-vapour Lamps uncorrected	700	45	3.45	-	-	5	7
	1000	60	4.8	-	-	4	5
	35	-	0.53	18	22	43	60
	70	-	1	10	12	23	32
	150	-	1.8	5	7	12	18
	250	-	3	3	4	7	10
Halogen metal-vapour Lamps Parallel correction	400	-	3.5	3	3	6	9
	1000	-	9.5	1	1	2	3
	2000	-	16.5	-	-	1	1
	35	6	0.25	5	6	36	50
	70	12	0.45	2	3	18	25
	150	20	0.75	1	1	11	15
High-pressure Sodium-vapour Lamps uncorrected	250	33	1.5	-	1	6	9
	400	35	2.5	-	1	6	8
	1000	95	5.8	-	-	2	3
	2000	148	11.5	-	-	1	2
	150	-	1.8	5	6	17	22
	250	-	3	3	4	10	13
High-pressure Sodium-vapour Lamps parallel	400	-	4.7	2	2	6	8
	1000	-	10.3	-	1	3	3
	150	20	0.83	1	1	11	16
	250	33	1.5	-	1	6	10
Low-pressure Sodium-vapour Lamps uncorrected	400	48	2.4	-	-	4	6
	1000	106	6.3	-	-	2	3
	18	-	0.35	22	27	71	90
	35	-	1.5	7	9	23	30
	55	-	1.5	7	9	23	30
	90	-	2.4	4	5	14	19
Low-pressure Sodium-vapour Lamps Parallel correction	135	-	3.5	3	4	10	13
	180	-	3.3	3	4	10	13
	18	5	0.35	6	7	44	66
	35	20	0.31	1	1	11	16
	55	20	0.42	1	1	11	16
	90	26	0.63	1	1	8	12
	135	45	0.94	-	-	4	7
	180	40	1.16	-	-	5	8

Thermal Rating per Pole			Motor Rating AC3 (kW)	
			230V	400V
MESB-20NC	MESB-20NO	20	1.3	-
MESB-24NC	MESB-24NO	24	2.2	4
MESB-40NC	MESB-40NO	40	5.5	11
-	MESB-63NO	63	8.5	15

AC Ratings in accordance with BSEN60947-5-1 and BSEN 60947-4-1

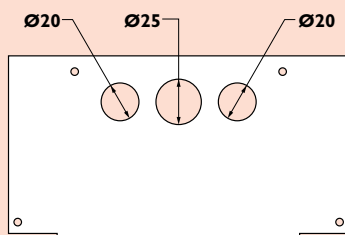
Definitions: AC1 Primarily Resistive Load but may be slightly inductive AC3 Medium-Starting-duty motors, starting and switching off of squirrel-cage motors

DIMENSION DETAILS

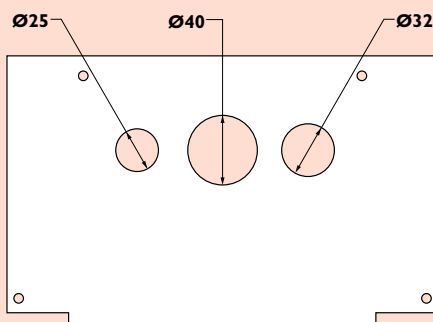


HOUSED UNIT DIMENSIONS (mm)

HOUSED UNIT	H	W	D	D inc. handle		H	W	D
20-32A	220	210	135	200				
63-100A	420	262	188	258	SPREADER BOX	105	262	183
125-200A	525	315	240	273	SPREADER BOX	105	315	210
315-400A	735	420	240	305	SPREADER BOX	210	420	240
630-800A	850	620	293	355	SPREADER BOX	210	620	262



20/32A Gland Plates



63-100A Gland Plates

All Dimensions in mm

SPECIFICATION

- BSEN947-3
- Range of ratings 20A-400A
- Pole configurations SP & N, and TP & N
- Voltage rating 415V ac
- Frequency rating 50/60 Hz
- Fuse type BS88

TECHNICAL DATA

	20-32A	63A	100A	125A	160A	200A	315A	400A	630	800
Mechanical Endurance	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	8,000	8,000
Fused s/c Current kA RMS	80	80	80	80	80	80	80	80	80	80
Ratings	A kW	A kW	A kW	A kW	A kW	A kW	A kW	A kW	A kW	A kW
415V Ie/pe	32 15	63 30	100 55	125 75	160 90	200 110	315 160	400 220	630 353	800 450
Isolator links	-	NHCIL2	NHCIL3	NHCIL3	NHCIL3	NHCIL3	NHCIL4	NHCIL4	NHCIL5	NHCIL5

FUSE COMPARISON DATA

CURRENT RATING	BS 88 REFERENCE	LAWSON	GEC	BUSSMAN
20/32A	A1	NIT	NIT	NITD
63A	A3, A2	TIS	TIS	BAO
100A	A4	TCP	TCP	CEO
125A	A4	CTFP	TCP	DEO
160A	A4	CTFP	TCP	DEO
200A	A4	CTFP	TCP	DEO
315A	B3	TKF	TKF	ED
400A	B4, B3, B2,B1	TFM	TFM	ED
630A	C1, C2	TTM, TM	TTM, TM	FF, EF
800A	C1, C2, C3	TLM, TTM, TM	TLM, TTM, TM	GF, FF, EF

List No	Page No	List No	Page No	List No	Page No	List No	Page No
104	28	LFL45	29	NHCBDK12	18	NHIX4504	5
106	28	LFL60	29	NHCBDK15	18	NHIX4506	7
106RED	28	LFL63	29	NHCEKIT	13, 15	NHIX4804	5
108	28	LFL80	29	NHCEKIT20	13, 15	NHIX51204	5
108M	28	M10	29	NHCIL2	25	NHIX51206	7
110M	28	MCBLDX	9, 13, 15	NHCIL3	25	NHIX5404	5
110M/63	28	ME232-230	9	NHCIL4	25	NHIX5406	7
110M/80	28	MESB-20NC	15	NHCIL5	25	NHIX5704	5
160C	28	MESB-20NO	9, 15	NHCSB	17, 18	NHIX5706	7
160CM	28	MESB-24NC	15	NHCSB2	25	NHIX6604	5
204	28	MESB-24NO	9, 15	NHCSB3	25	NHIX6606	7
206	28	MESB-40NC	15	NHCSB4	25	NHIX7504	5
304	28	MESB-40NO	9, 15	NHCSB5	25	NHIX7506	7
306	28	MESB-63NO	9, 15	NHDIS1919	8	NHIX8904	5
404	28	MTS12/1	9	NHDISS119	8	NHIX8906	7
406	28	MTS6/1	9	NHDISS1214	8	NHIX9804	5
604	28	MTS8	9	NHDRS12HI	8	NHIX9806	7
606	28	MTS8/1	9	NHDRS18HI	8	NHISS3404	4
804	28	NH00	9, 13, 15	NHDRS24HI	8	NHISS3406	7
921E	35	NH00PP	9, 15	NHDRS34HI	8	NHISS4604	4
921X	35	NH1004IP	5	NHDRS14SSLHI	8	NHISS4606	7
B6	29	NH10ED4	33	NHDRS20SSLHI	8	NHISS5504	4
B10	29	NH10ED6	33	NHDRS26SSLHI	8	NHISS5506	7
B16	29	NH1104	3	NHDRS36SSLHI	8	NHISS8704	4
B20	29	NH1104+3	3	NHDIIX1111	8	NHISS8706	7
B32	29	NH1106	6	NHDIIX1414	8	NHISS10SL	4
B40	29	NH1106+3	6	NHDIIX1919	8	NHISS15SL	4
C5	29	NH13CBKIT	9	NHDIIX88	8	NHISS10SLM	7
C15	29	NH13ED4	33	NHDI1111	8	NHISS15SLM	7
C20	29	NH13ED6	33	NHDI1414	8	NHJ00	23
C30	29	NH1404	3	NHDI88	8	NHJCSB2	23
C35	29	NH1406	6	NHDI88	8	NHJCSB3	23
C40	29	NH16ED4	33	NHDI88	8	NHJCSB4	23
C45	29	NH16ED6	33	NHDI88	8	NHJCSB5	23
CFL05	9, 29	NH18BB1	13, 15, 19	NHDI88	8	NHJCSB6	23
CFL10	9, 29	NH1904	3	NHDPDC	13	NHJCW3	23
CFL15	9, 29	NH1906	6	NHEB	13	NHJCW4	23
CFL20	9, 29	NH200TPSW	13	NHEB/DIN	13	NHJCW5	23
CFL30	9, 29	NH204/40	3	NHEP11	13, 15	NHJCW6	23
CFL35	9, 29	NH204/63	3	NHET25	9	NHJD03	23
CFL40	9, 29	NH206/40	6	NHFHDK17	17	NHJD04	23
CFL45	9, 29	NH206/63	6	NHFHDK20	17, 18	NHJD05	23
ESE2	33	NH21ED4	33	NHG13DB	17, 18	NHJD06	23
ESE2L	33	NH21ED6	33	NHG250MP	17	NHJPCB1001	23
ESE4	33	NH250DC	13	NHG400MP	18	NHJPCB1003	23
ESI4	33	NH250TPSW	13	NHGAB	17, 18	NHJPCB1251	23
ESM11	33	NH304IP	5	NHGPCB1001	19	NHJPCB1253	23
ESM13	33	NH4ED4	33	NHGPCB1003	19	NHJPCB1601	23
ESM6	33	NH4ED6	33	NHGPCB1251	19	NHJPCB1603	23
ESM7	33	NH4PINKIT	13	NHGPCB1253	19	NHJPCB161	23
ESM8	33	NH504	3	NHGPCB161	19	NHJPCB163	23
FALNH1206	8	NH504+3	3	NHGPCB163	19	NHJPCB2001	23
FALNH1706	8	NH506	6	NHGPCB251	19	NHJPCB2003	23
FALNH806	8	NH506+3	6	NHGPCB253	19	NHJPCB251	23
FALNHISS4606	8	NH704IP	5	NHGPCB321	19	NHJPCB253	23
FALNHISS5506	8	NH7ED4	33	NHGPCB323	19	NHJPCB321	23
FALNHISS8706	8	NH7ED6	33	NHGPCB401	19	NHJPCB323	23
FALNHRS10SL	8	NH804	3	NHGPCB403	19	NHJPCB401	23
FALNHRS1106	8	NH804+3	3	NHGPCB501	19	NHJPCB403	23
FALNHRS13SSL	8	NH804+6	3	NHGPCB503	19	NHJPCB501	23
FALNHRS15SL	8	NH806	6	NHGPCB631	19	NHJPCB503	23
FALNHRS46506	8	NH806+3	6	NHGPCB633	19	NHJPCB631	23
FALNHRS55506	8	NH806+6	6	NHGPCB801	19	NHJPCB633	23
FALNHRS66306	8	NHAB	13	NHGPCB803	19	NHJPCB801	23
FALNHRS706	8	NHAB2	13	NHIX11604	5	NHJPCB803	23
FALNHRS76206	8	NHAB3	13	NHIX11606	7	NHMSL	13, 15
FALNHRS8SSL	8	NHAB4	13	NHIX2404	5	NHPB12CB200	17
FWC	29	NHAB5	13	NHIX2406	7	NHPB12CB400	18
L45	29	NHB1PP	9, 13, 15	NHIX3304	5	NHPB12SW250	17
L60	29	NHBBTOK	13, 15	NHIX3306	7	NHPB12SW400	18
LFL100	29	NHCBDK11	18	NHIX3904	5	NHPB16CB400	18

List No	Page No	List No	Page No	List No	Page No	List No	Page No
NHPB16SW400	18	NHRS4204	3	NHRSX8904	5	NHTM504	4
NHPB6CB200	17	NHRS4206	6	NHRSX8906	7	NHTM506	7
NHPB6CB400	18	NHRS43304	3	NHRSX9804	5	NHTM804	4
NHPB6SW250	17	NHRS43306	6	NHRSX9806	7	NHTM806	7
NHPB6SW400	18	NHRS44204	3	NHSFBBC400	25	NHTN12	12
NHPB8CB200	17	NHRS44206	6	NHSPAK	13	NHTN125MP	12
NHPB8CB400	18	NHRS4504	3	NHSPN00111	12	NHTN16	12
NHPB8SW250	17	NHRS4506	6	NHSPN00141	12	NHTN20	12
NHPB8SW400	18	NHRS45604	3	NHSPN00161	12	NHTN24	12
NHPBDL	13, 15, 17, 18	NHRS45606	6	NHSPN00191	12	NHTN250MP	12
NHPBN25/70	19	NHRS46504	3	NHSPN0051	12	NHTN25120	12
NHPCB1TS	19	NHRS46506	6	NHSPN0081	12	NHTN25160	12
NHPCB3TS	19	NHRS4804	3	NHSPSF100	25	NHTN25200	12
NHPCBAU1	19	NHRS4806	6	NHSPSF20	25	NHTN25240	12
NHPCBAU2	19	NHRS504	4	NHSPSF32	25	NHTN2540	12
NHPCBLDX	19	NHRS504+3	4	NHSPSF63	25	NHTN2560	12
NHPCBPL	19	NHRS506	7	NHSTM10704	4	NHTN2580	12
NHRM1104	4	NHRS51204	3	NHSTM10706	7	NHTN4	12
NHRM1104+3	4	NHRS51206	6	NHSTM11604	4	NHTN6	12
NHRM1106	7	NHRS5404	3	NHSTM11606	7	NHTN8	12
NHRM1404	4	NHRS5406	6	NHSTM12504	4	NHTPDC	13
NHRM1406	7	NHRS55504	3	NHSTM12506	7	NHTPSF100	25
NHRM1904	4	NHRS55506	6	NHSTM12SL	4	NHTPSF125	25
NHRM204/40	4	NHRS5604+6	3	NHSTM12SLM	7	NHTPSF160	25
NHRM204/63	4	NHRS5606+6	6	NHSTM17SL	4	NHTPSF20	25
NHRM206/40	7	NHRS5704	3	NHSTM17SLM	7	NHTPSF200	25
NHRM206/63	7	NHRS5706	6	NHSTM3604	4	NHTPSF315	25
NHRM504	4	NHRS61104	3	NHSTM3606	7	NHTPSF32	25
NHRM504+3	4	NHRS61106	6	NHSTM3904	4	NHTPSF400	25
NHRM506	7	NHRS6304	7	NHSTM3906	7	NHTPSF63	25
NHRM804	4	NHRS6306	6	NHSTM4504	4	NHTPSF630	25
NHRM804+3	4	NHRS6504+6	3	NHSTM4506	7	NHTPSF800	25
NHRM804+6	4	NHRS6604	3	NHSTM4804	4	NSB03	9
NHRM806	7	NHRS6606	6	NHSTM4806	7	NSB06	9
NHRS1004IP	5	NHRS66304	3	NHSTM51204	4	NSB06-B	14
NHRS10704	3	NHRS66306	6	NHSTM51206	7	NSB06-C	14
NHRS10706	6	NHRS6804+3	3	NHSTM5404	4	NSB06-D	14
NHRS10SSLHI	3	NHRS6SL	3	NHSTM5406	7	NSB10	9
NHRS10SSLMHI	6	NHRS6SLM	6	NHSTM5704	4	NSB10-B	14
NHRS1104	4	NHRS704IP	5	NHSTM5706	7	NSB10-C	14
NHRS1104+3	4	NHRS71004	3	NHSTM61104	4	NSB10-D	14
NHRS1106	7	NHRS71006	6	NHSTM61106	7	NSB16	9
NHRS11604	3	NHRS7504	3	NHSTM6304	4	NSB16-B	14
NHRS11606	6	NHRS7506	6	NHSTM6306	7	NSB16-C	14
NHRS12504	3	NHRS76204	3	NHSTM6604	4	NSB16-D	14
NHRS12506	6	NHRS76206	6	NHSTM6606	7	NSB20	9
NHRS12SL	3	NHRS7704+3	3	NHSTM71004	4	NSB20-B	14
NHRS12SLM	6	NHRS7706+3	6	NHSTM71006	7	NSB20-C	14
NHRS1404	4	NHRS7SSLHI	3	NHSTM7504	4	NSB20-D	14
NHRS15SSLHI	3	NHRS7SSLMHI	6	NHSTM7506	7	NSB206-B	14
NHRS15SSLMHI	6	NHRS804	4	NHSTM8404	4	NSB206-C	14
NHRS17SL	3	NHRS804+3	4	NHSTM8406	7	NSB206-D	14
NHRS17SLM	6	NHRS804+6	4	NHSTM8904	4	NSB210-B	14
NHRS1904	4	NHRS806	7	NHSTM8906	7	NSB210-C	14
NHRS204/40	4	NHRS8404	3	NHSTM9304	4	NSB210-D	14
NHRS204/63	4	NHRS8406	6	NHSTM9306	7	NSB216-B	14
NHRS206/40	7	NHRS8604+3	3	NHSTM9804	4	NSB216-C	14
NHRS206/63	7	NHRS8904	3	NHSTM9806	7	NSB216-D	14
NHRS23204	3	NHRS8906	6	NHSTM9SL	4	NSB220-B	14
NHRS23206	6	NHRS9304	3	NHSTM9SLM	7	NSB220-C	14
NHRS2404	3	NHRS9306	6	NHSW3100	25, 35	NSB220-D	14
NHRS2406	6	NHRS9804	3	NHSW3125	25, 35	NSB232-B	14
NHRS304IP	5	NHRS9806	6	NHSW320	25, 35	NSB232-C	14
NHRS3304	3	NHRS9SL	3	NHSW332	25, 35	NSB232-D	14
NHRS3306	6	NHRS9SLM	6	NHSW340	25, 35	NSB240-B	14
NHRS33404	3	NHRSX5704	5	NHSW363	25, 35	NSB240-C	14
NHRS33406	6	NHRSX5706	7	NHSW363X	25, 35	NSB240-D	14
NHRS3604	3	NHRSX6604	5	NHTM1104	4	NSB25	9
NHRS3606	6	NHRSX6606	7	NHTM1106	7	NSB250-B	14
NHRS3904	3	NHRSX7504	5	NHTM1404	4	NSB250-C	14
NHRS3906	6	NHRSX7506	7	NHTM1904	4	NSB250-D	14

List No	Page No	List No	Page No	List No	Page No	List No	Page No
NSB263-B	14	NSPE-4136	22	PSB263-B	14	WBE4	33
NSB263-C	14	NSPE-4137	22	PSB263-C	14	WBE4/EK	33
NSB263-D	14	NSPE-4138	22	PSB263-D	14	WBE4/NK	33
NSB306-B	14	NSPE-4151	22	PSB306-B	14	WELC06	9
NSB306-C	14	NSPE-4152	22	PSB306-C	14	WELC10	9
NSB306-D	14	NSPE-4153	22	PSB306-D	14	WELC16	9
NSB310-B	14	NSPE-4154	22	PSB310-B	14	WELC20	9
NSB310-C	14	NSPE-4171	22	PSB310-C	14	WELC32	9
NSB310-D	14	NSPE-4172	22	PSB310-D	14	WELC40	9
NSB316-B	14	NSPE-4173	22	PSB316-B	14	WELC50	9
NSB316-C	14	NSPE-4174	22	PSB316-C	14	WPL	9, 13, 15
NSB316-D	14	NSPE-4182	22	PSB316-D	14	WRDM100/2	32
NSB32	9	NSPE-4183	22	PSB32-B	14	WRDM100/4	32
NSB32-B	14	NSPE-4184	22	PSB32-C	14	WRDM40/2	32
NSB32-C	14	NSPE-4185	22	PSB32-D	14	WRDM40/4	32
NSB32-D	14	NSPE-4186	22	PSB320-B	14	WRDM63/4	32
NSB320-B	14	NSPE-4187	22	PSB320-C	14	WRDS100/2	32
NSB320-C	14	NSPE-4188	22	PSB320-D	14	WRDS100/4	32
NSB320-D	14	NSPE-4189	22	PSB325-B	14	WRDS40/2	32
NSB332-B	14	NSPE-4190	22	PSB325-C	14	WRDS40/4	32
NSB332-C	14	NSPE-4191	22	PSB325-D	14	WRDS63/2	32
NSB332-D	14	NSPE-4192	22	PSB332-B	14	WRDS63/4	32
NSB340-B	14	NSPE-4193	22	PSB332-C	14	WRDS80/2	32
NSB340-C	14	NSPE-4194	22	PSB332-D	14	WRDVS32/2	32
NSB340-D	14	NSPE-4195	22	PSB340-B	14	WRL100/2	13, 32
NSB350-B	14	NSPE-4196	22	PSB340-C	14	WRL100/4	13, 32
NSB350-C	14	NSPE-4197	22	PSB340-D	14	WRL63/2	13, 32
NSB350-D	14	NSPE-4198	22	PSB350-B	14	WRL63/4	13, 32
NSB363-B	14	NSPE-4199	22	PSB350-C	14	WRM100/2	13, 32
NSB363-C	14	NSPE-4200	22	PSB350-D	14	WRM100/4	13, 32
NSB363-D	14	NSPE-4201	22	PSB363-B	14	WRM40/2	32
NSB40	9	PDDPL	13, 15	PSB363-C	14	WRM40/4	32
NSB40-B	14	PSB06-B	14	PSB363-D	14	WRM63/2	13, 32
NSB40-C	14	PSB06-C	14	PSB40-B	14	WRM63/4	13, 32
NSB40-D	14	PSB06-D	14	PSB40-C	14	WRM80/2	13
NSB50	9	PSB10-B	14	PSB40-D	14	WRMT100/2	13, 32
NSB50-B	14	PSB10-C	14	PSB50-B	14	WRMT100/4	13, 32
NSB50-C	14	PSB10-D	14	PSB50-C	14	WRS100/2	13, 32
NSB50-D	14	PSB16-B	14	PSB50-D	14	WRS100/4	13, 32
NSB63-B	14	PSB16-C	14	PSB63-B	14	WRS16/2	32
NSB63-C	14	PSB16-D	14	PSB63-C	14	WRS25/2	32
NSB63-D	14	PSB20-B	14	PSB63-D	14	WRS32/2	32
NSBS10-B/1	9	PSB20-C	14	PSBL3	13, 15	WRS32/4	32
NSBS10/1	9	PSB20-D	14	PSBL9	13, 15, 19	WRS40/2	32
NSBS10/2	9, 15	PSB25-B	14	PSBS10/1	15	WRS40/4	32
NSBS16-B/1	9	PSB25-C	14	PSBS10/2	15	WRS63/2	13, 32
NSBS16/1	9	PSB25-D	14	PSBS16/1	15	WRS63/4	13, 32
NSBS16/2	9, 15	PSB206-B	14	PSBS16/2	15	WRS80/2	13, 32
NSBS20-B/1	9	PSB206-C	14	PSBS20/1	15	WS101	35
NSBS20/1	9	PSB206-D	14	PSBS20/2	15	WS102	13, 35
NSBS20/2	9, 15	PSB210-B	14	PSBS32/1	15	WS103	13, 35
NSBS32-B/1	9	PSB210-C	14	PSBS32/2	15	WS104	13, 35
NSBS32/1	9	PSB210-D	14	PSBS40/1	15	WS121	35
NSBS32/2	9, 15	PSB216-B	14	PSBS40/2	15	WS122	13, 35
NSBS40-B/1	9	PSB216-C	14	PSBS50/1	15	WS123	13, 35
NSBS40/1	9	PSB216-D	14	PSBS6/1	15	WS124	13, 35
NSBS40/2	9, 15	PSB220-B	14	PSBS6/2	15	WS601	35
NSBS50-B/1	9	PSB220-C	14	REC2	35	WS602	13, 35
NSBS50/1	9	PSB220-D	14	REC2S	35	WS603	13, 35
NSBS6-B/1	9	PSB225-B	14	REC3	35	WS604	13, 35
NSBS6/1	9	PSB225-C	14	REC4	35		
NSBS6/2	9, 15	PSB225-D	14	SMSCD11	9, 15		
NSC05	9	PSB232-B	14	SMSC11	9		
NSC10	9	PSB232-C	14	TMSCD21	9, 15		
NSC15	9	PSB232-D	14	TMTCD22	9, 15		
NSC20	9	PSB240-B	14	TRMSCT11	9		
NSC30	9	PSB240-C	14	TRMSCT31	9		
NSC35	9	PSB240-D	14	WBE/BS	33		
NSC40	9	PSB250-B	14	WBE3	33		
NSC45	9	PSB250-C	14	WBE3/EK	33		
NSPE-4120	22	PSB250-D	14	WBE3/NK	33		



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