

When you need reliable overload and short circuit protection for your motor control application, look to c3controls. Our Series E330 Enclosed Motor Protection Circuit Breakers are ideal for use in multi-motor applications – providing space, labor, and cost savings. The ABS plastic enclosure is rated IP55 and is CE certified, making them suitable for use anywhere in the world.

ENCLOSED IEC MOTOR PROTECTION CIRCUIT BREAKERS

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NOTE: The scope (range, description, price, specifications, dimensions, etc.) of the product featured in this section is subject to change without notice. Refer to www.c3controls.com for product updates.

Conformity to Standards:

SERIES 330 - MOTOR PROTECTION CIRCUIT BREAKERS
UL 508

CSA C22.2 No. 14
IEC 60947-1, 60947-4-1



SERIES E330 - ENCLOSURES
IEC 60529



Certifications:

UL File #: E187641
(Guide NLRV, NLRV7),
E312106 (Guide NKJH, NKJH7)

CE Marked (per EU Low Voltage
Directive 2006/95/EC and 93/68/EEC)

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Directive 2006/95/EC and 93/68/EEC)

Visit www.c3controls.com to download product certifications.

IT'S EASY TO BUILD YOUR OWN ENCLOSED MOTOR PROTECTION CIRCUIT BREAKER

Simply pick the code number from each of the sections below and combine them to build your part number. See page 6 for more detailed directions.

Enclosed IEC Motor Protection Circuit Breakers

E330 - - - /

I II III IV V VI VII

Example: To build one of our most popular Enclosed IEC MPCBs, the part number would be **E330 + II + III + E + V + F11 + VII** or **E330-T2U10-ABS1ERY-F11**



I. OPERATOR TYPE

CODE	DESCRIPTION	PRICE
E330	Series 330	\$ 6.00

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II. MOTOR PROTECTION CIRCUIT BREAKERS (THERMAL AND MAGNETIC TRIP ELEMENTS)

CODE	RATED OPER. CURRENT (A)	ADJUSTMENT RANGE (A)	MAGNETIC TRIP CURRENT (A)	ULTIMATE INTERRUPTING CURRENT (Icu) (kA)		RATINGS FOR SWITCHING AC MOTORS*								MOTOR PROTECTION CIRCUIT BREAKER	PRICE
						3 PHASE kW (50Hz)				3 PHASE HP (60Hz)					
						400V	480V	230V	400/415V	500V	690V	200V	230V	460V	
T2C16	0.16	0.1 ~ 0.16	2.1	100	100	—	—	—	0.06	—	—	—	—	330-T25S2C16	\$45.00
T2C25	0.25	0.16 ~ 0.25	3.3	100	100	—	0.06	0.06	0.12	—	—	—	—	330-T25S2C25	\$45.00
T2C40	0.40	0.25 ~ 0.4	5.2	100	100	—	0.09	0.12	0.18	—	—	—	—	330-T25S2C40	\$45.00
T2C63	0.63	0.4 ~ 0.63	8.2	100	100	0.06	0.12	0.25	0.25	—	—	—	1/4	330-T25S2C63	\$45.00
T2D10	1.0	0.63 ~ 1.0	13	100	100	0.12	0.25	0.37	0.55	—	—	1/2	1/2	330-T25S2D10	\$45.00
T2D16	1.6	1.0 ~ 1.6	21	100	100	0.18	0.55	0.75	1.1	1/4	1/3	3/4	1	330-T25S2D16	\$45.00
T2D25	2.5	1.6 ~ 2.5	33	100	100	0.37	0.75	1.1	1.5	1/2	1/2	1-1/2	1-1/2	330-T25S2D25	\$45.00
T2D40	4.0	2.5 ~ 4.0	52	100	100	0.75	1.5	2.2	3	3/4	1	2	3	330-T25S2D40	\$45.00
T2D63	6.3	4.0 ~ 6.3	82	100	100	1.1	2.2	3	4	1-1/2	1-1/2	3	5	330-T25S2D63	\$45.00
T2U10	10	6.3 ~ 10	130	100	42	2.2	4	4	7.5	3	3	7-1/2	10	330-T25S2U10	\$49.00
T2U16	16	10 ~ 16	208	50	10	3.7	7.5	9	12.5	5	5	10	15	330-T25S2U16	\$49.00
T2U20	20	16 ~ 20	260	50	10	3.7	9	12.5	15	5	7-1/2	15	20	330-T25S2U20	\$49.00
T2U25	25	20 ~ 25	325	50	10	5.5	12.5	15	22	7-1/2	7-1/2	15	20	330-T25S2U25	\$58.00
T2U32	32	25 ~ 32	416	50	10	7.5	15	18.5	30	10	10	20	25	330-T25S2U32	\$73.00

*NOTE: HP and kW ratings shown in the table above are for reference. The final selection of the motor protection circuit breaker must be based on the actual motor full load current.

III. ENCLOSURE TYPE

CODE	DESCRIPTION	DIMENSION REF.	CAT. NO.	PRICE
ABS1	ABS Plastic	1	330-BABS1	\$21.00
ABS2	ABS Plastic	2	330-BABS2	\$26.00

IV. OPERATING HANDLE TYPE

CODE	FOR ENCLOSURE TYPE	DIMENSION REF.	DESCRIPTION
E	ABS	1, 2	Round (IP55)

AVAILABLE FRAME SIZES AND HANDLE
COLOR OPTIONS FOR ENCLOSED MOTOR
PROTECTION CIRCUIT BREAKERS



Frame Size 1
92mm (3-5/8")



Frame Size 2
108mm (4-1/4")

SOME OF OUR POPULAR CONFIGURATIONS:

ENCLOSED IEC MOTOR PROTECTION CIRCUIT BREAKERS

CATALOG NUMBER	DESCRIPTION	PRICE
E330-T2D63-ABS1ERY	Enclosed Motor Protection Circuit Breaker, Thermal and Magnetic Version, 4.0 ~ 6.3A Adj. Range, ABS Box Dimension 1, Round (IP55) Red/Yellow Handle	\$72.00
E330-T2D63-ABS1EBG	Enclosed Motor Protection Circuit Breaker, Thermal and Magnetic Version, 4.0 ~ 6.3A Adj. Range, ABS Box Dimension 1, Round (IP55) Black/Grey Handle	\$72.00
E330-T2D63-ABS1ERY-F11	Enclosed Motor Protection Circuit Breaker, Thermal and Magnetic Version, 4.0 ~ 6.3A Adj. Range, ABS Box Dimension 1, Round (IP55) Red/Yellow Handle, Front Mounted 1 NO + 1 NC Auxiliary	\$79.00
E330-T2U10-ABS1ERY-F11	Enclosed Motor Protection Circuit Breaker, Thermal and Magnetic Version, 6.3 ~ 10A Adj. Range, ABS Box Dimension 1, Round (IP55) Red/Yellow Handle, Front Mounted 1 NO + 1 NC Auxiliary	\$83.00

ENCLOSED MOTOR PROTECTION CIRCUIT BREAKER (CONT.)

V. HANDLE COLOR

CODE	DESCRIPTION
BG	Black/Grey
RY	Red/Yellow

VI. FRONT MOUNTED OPTIONS

CODE	FOR ENCLOSURE DIMENSION REF.	DESCRIPTION	CAT. NO.	PRICE
(Blank)	—	None	—	—
F11	1, 2	Front Mounted 1 NO and 1 NC	330-FA11S25	\$ 7.00

VII. SIDE MOUNTED OPTIONS

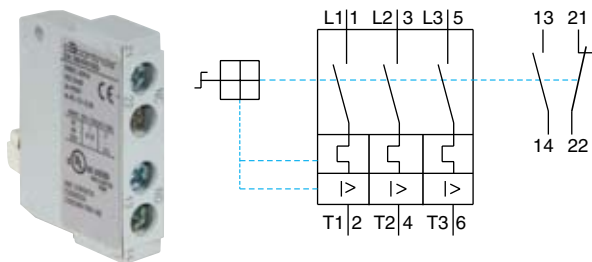
CODE	FOR ENCLOSURE DIMENSION REF.	DESCRIPTION	CAT. NO.	PRICE
(Blank)	—	None	—	—
S11	1	Side Mounted 1 Normally Open and 1 Normally Closed	330-SA11S25	\$ 7.00
S20	1	Side Mounted 2 Normally Open	330-SA20S25	\$ 7.00
SR25XC	2	Shunt Release Module 20 ~ 24V 50/60Hz	330-SR25XC	\$16.50
SR25XJ	2	Shunt Release Module 40 ~ 48V 50/60Hz	330-SR25XJ	\$16.50
SR25XAH	2	Shunt Release Module 100 ~ 127V 50/60Hz	330-SR25XAH	\$16.50
SR25XF	2	Shunt Release Module 200 ~ 240V 50/60Hz	330-SR25XF	\$16.50
SR25XQ	2	Shunt Release Module 365 ~ 440V 50/60Hz	330-SR25XQ	\$16.50
UR25C	2	Undervoltage Release Module 20V 50Hz / 24V 60Hz	330-UR25C	\$16.50
UR25XC	2	Undervoltage Release Module 24V 50/60Hz	330-UR25XC	\$16.50
UR25H	2	Undervoltage Release Module 24V 50Hz / 28V 60Hz	330-UR25H	\$16.50
UR25AG	2	Undervoltage Release Module 95V 50Hz / 110V 60Hz	330-UR25AG	\$16.50
UR25D	2	Undervoltage Release Module 110V 50Hz / 120V 60Hz	330-UR25D	\$16.50
UR25AH	2	Undervoltage Release Module 110 ~ 115V 50Hz / 127V 60Hz	330-UR25AH	\$16.50
UR25L	2	Undervoltage Release Module 180V 50Hz / 208V 60Hz	330-UR25L	\$16.50
UR25AJ	2	Undervoltage Release Module 190V 50Hz / 220V 60Hz	330-UR25AJ	\$16.50
UR25F	2	Undervoltage Release Module 208V 50Hz / 240V 60Hz	330-UR25F	\$16.50
UR25P	2	Undervoltage Release Module 230 ~ 240V 50Hz / 277V 60Hz	330-UR25P	\$16.50
UR25AL	2	Undervoltage Release Module 325V 50Hz / 380V 60Hz	330-UR25AL	\$16.50
UR25Q	2	Undervoltage Release Module 380V 50Hz / 440V 60Hz	330-UR25Q	\$16.50
UR25R	2	Undervoltage Release Module 400 ~ 415V 50Hz / 480V 60Hz	330-UR25R	\$16.50
UR25T	2	Undervoltage Release Module 500V 50Hz / 600V 60Hz	330-UR25T	\$16.50

UNIQUE PRODUCT FEATURES



1. The 330 Motor Protection Circuit Breaker Enclosure Accessory is a custom fit enclosure design specifically for the Motor Protection Circuit Breaker, allowing superior performance.
2. ABS Plastic enclosure has integrated ground and neutral connections, and four (4) standard PG16 knock outs (2 on the top and 2 on the bottom).
3. ABS Plastic enclosure handle can be padlocked in the "OFF" position with up to three padlocks for extra safety and the security needed during maintenance activities.
4. The lift off ABS Plastic enclosure has an IP55 environmental rating and is CE certified.

FRONT MOUNTED AUXILIARY CONTACTS

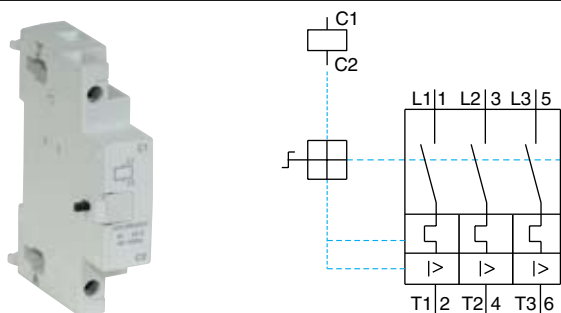


Our front mounted auxiliary contacts do not add depth to the motor protection circuit breaker and installs within its foot print – no extra panel area is required. IP20 guarded terminals protect against accidental contact with live parts. These contacts snap-on and install without the use of tools. NOTE: See chart below for maximum number of front mounted auxiliary contacts. See IEC MPCB section, page 83, for front mounted auxiliary contact part number and ordering information.

MAXIMUM NUMBER OF FRONT OR SIDE MOUNTED AUXILIARY CONTACTS

MOTOR PROTECTION CIRCUIT BREAKER	MAXIMUM NUMBER
330-T25S2, 330-M25S2	8 (one front mounted auxiliary contact module, one side mounted auxiliary contact module, and one side mounted trip indicating auxiliary contact module.)

SHUNT RELEASE MODULES



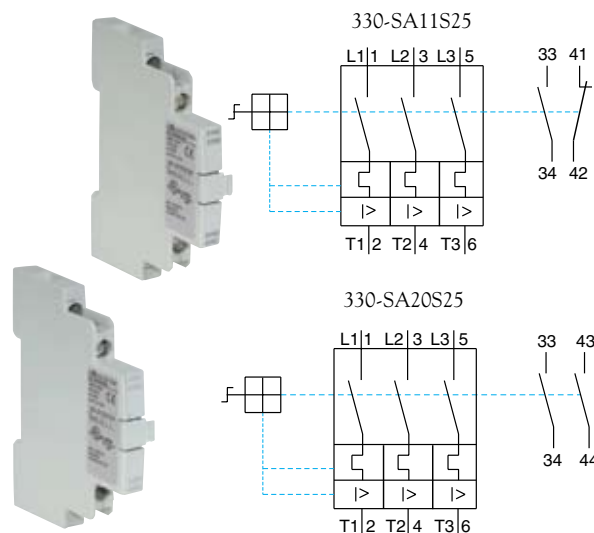
The shunt release module enables the motor protection circuit breaker to be turned "OFF" from a remote location. Snaps-on and installs on the right side of the motor protection circuit breaker without the use of tools. IP20 guarded terminals to protect against accidental contact with live parts. Wide range of 50/60Hz operating voltages. Can be used in conjunction with front mounted and side mounted auxiliary contacts. See IEC MPCB section, page 84, for shunt release module part number and ordering information.

ADJUSTMENT SCALE COVER



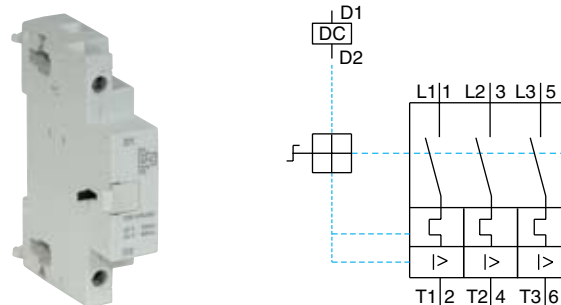
The adjustment scale cover prevents inadvertent or unauthorized adjustment of the full load current dial setting of the motor protection circuit breaker. See IEC MPCB section, page 85, for adjustment scale cover part number and ordering information.

SIDE MOUNTED AUXILIARY CONTACTS



Our side mounted auxiliary contacts feature IP20 guarded terminals to protect against accidental contact with live parts. These contacts snap-on to the left side of the motor protection circuit breaker and install without the use of tools. NOTE: See chart at left for maximum number of side mounted auxiliary contacts. See IEC MPCB section, page 83, for side mounted auxiliary contact part number and ordering information.

UNDERVOLTAGE RELEASE MODULES



The undervoltage release module automatically trips the motor protection circuit breaker when the supply voltage is less than 70 - 35% of the rated voltage of the undervoltage release module. Undervoltage release modules are ideal to ensure motors do not automatically restart after a power outage when the motor protection circuit breaker is being used by itself as a manual motor controller. Snaps-on and installs on the right side of the motor protection circuit breaker without the use of tools. IP20 guarded terminals to protect against accidental contact with live parts. Wide range of 50 and 60Hz operating voltages. Can be used in conjunction with front mounted and side mounted auxiliary contacts. See IEC MPCB section, page 84, for undervoltage release module part number and ordering information.

DISCOUNT
SCHEDULE **C**

SPECIFICATIONS:

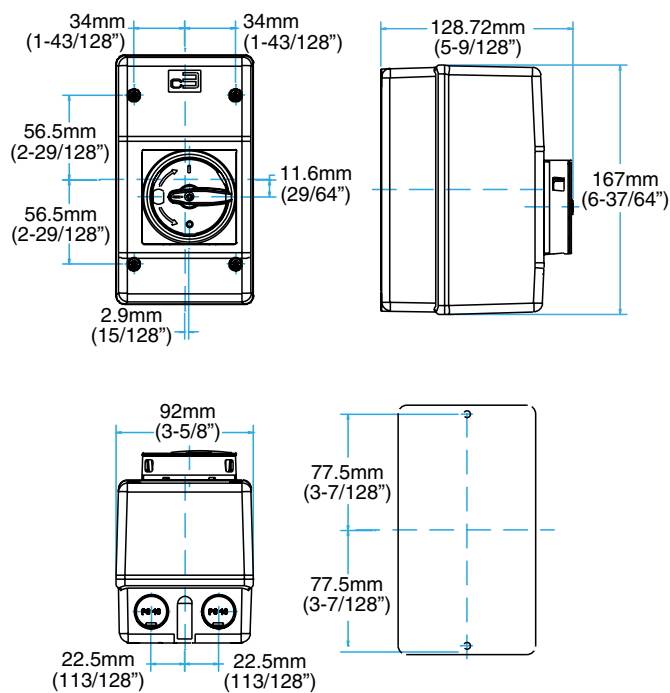
SERIES E330 ENCLOSED MOTOR PROTECTION CIRCUIT BREAKER SPECIFICATIONS

		SWITCH CURRENT RATING CODE													
	UNITS	T2C16	T2C25	T2C40	T2C63	T2D10	T2D16	T2D25	T2D40	T2D63	T2U10	T2U16	T2U20	T2U25	T2U32
ELECTRICAL GENERAL															
		For detailed motor protection circuit breaker specifications by catalog number, see page 86													
Rated Operating Frequency	Hz	50/60													
ELECTRICAL UL/CSA APPLICATIONS															
		For detailed motor protection circuit breaker specifications by catalog number, see page 86													
Rated Operating Voltage, Ue	VAC	600													
Short Circuit Current Ratings @ 480V AC	kA	50	50	50	50	50	50	50	50	50	50	50	50	50	42
Maximum Fuse or Circuit Breaker Size ^①	kA	125	125	125	125	125	125	125	125	125	125	125	160	250	250
Short Circuit Current Ratings @ 600V AC	kA	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maximum Fuse or Circuit Breaker Size ^①	kA	125	125	125	125	125	125	125	125	125	125	125	160	250	250
ELECTRICAL IEC APPLICATIONS															
		For detailed motor protection circuit breaker specifications by catalog number, see page 87													
Rated Insulation Voltage, Ui	V	690													
Rated Impulse Voltage, Uimp	kV	6													
Rated Operating Voltage, Ue	VAC	690													
MECHANICAL															
		For detailed motor protection circuit breaker specifications by catalog number, see page 87													
ENVIRONMENTAL															
		For detailed motor protection circuit breaker specifications by catalog number, see page 87													
Ambient Operating Temperature	°C/°F	-20 to +55 (-4 to +131)													
Ambient Storage Temperature	°C/°F	-50 to +80 (-58 to +176)													
Altitude	m/ft.	2,000/6,562													
CONSTRUCTION - GENERAL															
		For detailed motor protection circuit breaker specifications by catalog number, see page 88													
Number of Poles		3													
Pollution Degree		3													
Trip Class		10													
INGRESS PROTECTION															
Main Terminals (with conductors connected)		IP20													
Operating Handle															
Code E		IP55													
Enclosure															
Code ABS		IP55													
CONSTRUCTION - CONDUCTOR CROSS SECTIONS															
		For detailed motor protection circuit breaker specifications by catalog number, see page 88													
RoHS Compliance		For RoHS compliance documentation by product, refer to www.c3controls.com													

① Not to exceed the maximum fuse/circuit breaker size. Per the National Electrical Code.

MOTOR PROTECTION CIRCUIT BREAKER ENCLOSURES

FRAME SIZE 1



FRAME SIZE 2

