

The LEROY-SOMER offer



Characteristics

Mains supplies												Dimensions and weights					
P _{mot} (kW)	Single phase 110 V		Single phase 230 V		3-phase 230 V		3-phase 400 V		3-phase 575 V		3-phase 690 V		Size	H	W	D	Weight
	Rating Size		Rating Size		Rating Size		Rating Size		Rating Size		Rating Size		mm	mm	mm	mm	kg
	Overload		Overload		Overload		Overload		Overload		Overload						
	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small					
0,25	0,25 ML - 1A		0,5 M - 1A										1A	154	75	145	0,9
0,37	0,37 ML - 1A		1 M - 1A				1 T - 1B						1B	205	85	156	1,3
0,55	1,5 ML - 1B		1,2 M - 1A				1,2 T - 1B						1C	258	100	173	2
0,75	1,5 ML - 1B		1,5 M - 1A				1,5 T - 1B						1D	335	115	198	4,5
1,1	2 ML - 1B				2 M/TL - 1B		2 T - 1B						2	368	155	219	7
1,5					2,5 M/TL - 1B		2,5 T - 1B						3	368	250	260	15
2,2					3,5 M/TL - 1C		3,5 T - 1C		3,5 TM - 3				4	510	310	298	30
3					4,5 M/TL - 1D		4,5 T - 1C		4,5 TM - 3	3,5 TM - 3			5	820	310	298	55
4					5 TL - 1D		5,5 T - 1C		5,5 TM - 3	4,5 TM - 3			6	1131	310	298	75
5,5					8 TL - 2	5,5 TL - 2	7 T - 1D		8 TM - 3	5,5 TM - 3							
7,5					11 TL - 3	8 TL - 2	10 T - 1D	8 T - 2	11 TM - 3	8 TM - 3							
11					16 TL - 3	11 TL - 3	16 T - 2	11 T - 2	16 TM - 3	11 TM - 3							
15					22 TL - 4	16 TL - 3	22 T - 3	16 T - 2	22 TM - 3	16 TM - 3	22 TH - 4						
18,5					27 TL - 4	22 TL - 4	27 T - 3	22 T - 3	33 TH - 4	22 TM - 3	27 TH - 4	22 TH - 4					
22					33 TL - 4	27 TL - 4	33 T - 3	27 T - 3	40 TH - 4	33 TH - 4	33 TH - 4	27 TH - 4					
30							40 T - 4	33 T - 3	50 TH - 4	40 TH - 4	40 TH - 4	33 TH - 4					
37							50 T - 4	40 T - 4	60 TH - 4	50 TH - 4	50 TH - 4	40 TH - 4					
45							60 T - 4	50 T - 4	75 TH - 5	60 TH - 4	60 TH - 4	50 TH - 4					
55							75 T - 5	60 T - 4	100 TH - 5	75 TH - 5	75 TH - 5	60 TH - 4					
75							100 T - 5	75 T - 5	120 TH - 6	100 TH - 5	100 TH - 5	75 TH - 5					
90							120 T - 6	100 T - 5	150 TH - 6	120 TH - 6	120 TH - 6	100 TH - 5					
110							150 T - 6	120 T - 6		150 TH - 6		120 TH - 6					
132								150 T - 6				150 TH - 6					

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P_{mot} : motor output power for the mains voltages shown above



DIGIDRIVE SK
Open loop variable speed drive
for induction motors



LEROY-SOMER 16015 ANGOULÊME CEDEX - FRANCE

338 567 258 RCS ANGOULÊME
S.A. au capital de 62 779 000 €

www.leroy-somer.com

Whatever the level of functions required, DIGIDRIVE SK controls induction motors in open loop mode with a very high performance level. Its design is innovatory and compact, with dimensions amongst the smallest in its category.

Intelligent management of applications?

Play the LogicStick card!

With the Sypt Lite software workshop available on the CD-ROM supplied, LogicStick offers integrated PLC functions for controlling the application (mathematical, AND, OR, timer, counter, comparator, PID functions, ...). LogicStick is programmable in IEC 61 131-3 language (Ladder common to UNIDRIVE SP) and incorporates a memory for storing the application. The user therefore has customisable functions and immediate access to all the drive's parameters (read and write).

LogicStick therefore enables considerable savings to be made on control system components and wiring.

Standard solutions

Instantaneously installing the program in the DIGIDRIVE SK, LogicStick offers you a turnkey solution

- Total
- High-performance
- Innovatory
- Competitive

Standard programs developed: Lift, Hoisting, Pumping, etc.

Pumping

- ▶ Integration of functions
 - Pressure regulation with variable flow rate
 - Zero flow stop
 - Unpriming or pipe breakage protection
- ▶ Inflation of the system before stopping
- ▶ Parameters in menu 0
- ▶ Automatic or manual mode
- ▶ Management of references in application units

FLEXIBLE

Control methods

▶ Via I/O

- **As standard:**
 - 8 digital or analogue I/O
 - 1 relay output
- **SM-I/O Lite option²:**
 - 5 digital or analogue I/O
 - 1 relay output
- **SM-I/O Timer option²:**
 - 5 digital or analogue I/O
 - 1 relay output
 - Real-time clock



▶ Via fieldbus

- As standard: Modbus
- SM-Bus options²



2 : from size 1B

holding all the cards...
... for all types of application



- Preset configurations allow an immediate start
- Automatic self-calibration of the motor



- **Instantaneous loading** of a parameters set using the copy key
- **Saving** of the drive's parameters
- **Copying** of the programming to other drives.

Multiple mains supplies

- Single phase 110 V and 230 V
- Three-phase 230 V, 400 V, 575 V and 690 V

Overtating of a motor power for applications with reduced over-load (pumping, ventilation, compression, etc.)¹

- **Energy management:**
 - Operating time meter
 - Energy consumption meter
 - Hourly cost display
- **Parameter setting: Via the keypad or PC**
 - LS Soft software
 - Scope function

A single range for applications with open loop vector control
0.25 to 132 kW

- **EMC**
As standard, conforms to EN 61000-6-4 & IEC 61800-3
Disconnectable built-in RFI filter

1 : from size 2