

TeSys enclosed starters

D.O.L. starters for motor control
0.25 to 7.5 kW with 3-phase thermal
overload relay with 3 protected phases

Characteristics (1)

Conforming to standards	IEC 60947-4-1, IEC 60439-1, VDE 0660-102 and EN 60947
Degree of protection conforming to IEC 60529	IP 65
Ambient air temperature	Operation: - 5 to + 40 °C
Operating positions	Same as for the TeSys K contactors
Material	Self-extinguishing ABS

References

Non-reversing starters

Starter LE1 M, combined with short-circuit protection components, provides type 1 or type 2 coordination, depending on the type of devices used.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3				Setting range of thermal overload relay LR2 K (2)	Basic reference, to be completed by adding the voltage code (3)	Weight
220 V 230 V	240 V	380 V 400 V	415 V			
kW	kW	kW	kW	A		kg
0.12	0.12	0.25	0.25	0.54...0.8	LE1 M35●●05	0.600
0.18	0.18	0.37	0.37	0.8...1.2	LE1 M35●●06	0.600
0.25	0.25	0.55	0.55	1.2...1.8	LE1 M35●●07	0.600
0.37	0.37	1.1	0.75	1.8...2.6	LE1 M35●●08	0.600
0.55	0.55	1.5	1.5	2.6...3.7	LE1 M35●●10	0.600
1.1	0.75	2.2	2.2	3.7...5.5	LE1 M35●●12	0.600
1.5	1.1	3	3	5.5...8	LE1 M35●●14	0.600
2.2	2.2	4	4	8...11.5	LE1 M35●●16	0.600
3	3	5.5	5.5	10...14	LE1 M35●●21	0.600
3.7	4	7.5	7.5	12...16	LE1 M35●●22	0.600

Description

■ The standard version comprises:

- 1 TeSys contactor LC1 K●●,
- 1 TeSys thermal overload relay LR2 K,
- 1 green Start button "I",
- 1 red Stop/Reset button "O/R",
- 1 yellow operating indicator.

■ Control may be pulsed or maintained.

■ An earth terminal and a neutral terminal are provided on the bottom of the enclosure.

■ For safety applications, see enclosed starters:

GV2 MC, LG1 K, LG1 D, LG7 K, LG7 D, LJ7 K, LG8 K and LJ8 K.

Variant

Starter without thermal overload relay LR2 K

Delete the last 2 digits of the starter references selected above.

Example: LE1 M35●●

Replacement part

Description	Basic reference, to be completed by adding the voltage code (3)	Weight
		kg
Contactor	LC1 K●●A80	0.180

(1) For characteristics of TeSys K contactor, see pages 5/10 to 5/13.

For characteristics of TeSys thermal overload relay LR2 K, see pages 6/10 and 6/11.

(2) Thermal overload relay fitted as standard.

(3) The contactor coil is pre-wired between 2 phases of the power circuit.

The codes indicated below therefore correspond to the **power circuit voltage**.

Volts ~ 50/60 Hz	24	220	230	240	380	400	415	440
Code	B7	M7	P7	U7	Q7	V7	N7	R7

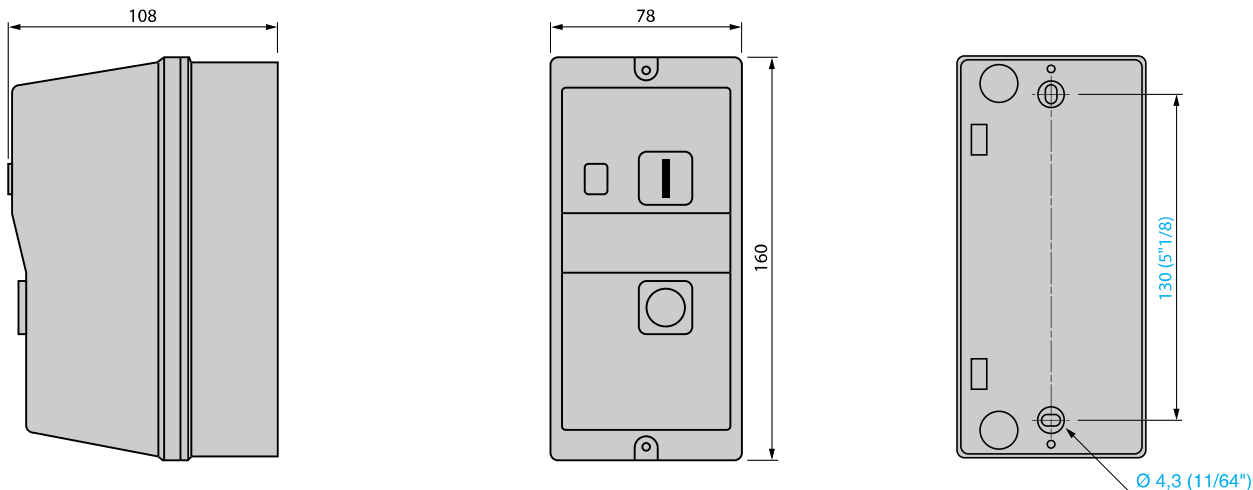
Example: 380/400 V 3-phase supply, 4 kW motor: LE1 M35Q716.

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Dimensions

LE1 M35 (1)



Knock-outs or blanking plugs for cable glands

Enclosure type	At top		At bottom	
	PG	ISO	PG	ISO
LE1 M	2 x 13 to 2 x 21	2 x 20 or 2 x 25	2 x 13 to 2 x 21	2 x 20 or 2 x 25

(1) Can be mounted on machine panel or frame. Knock-outs for 4 x 13 P cable glands.

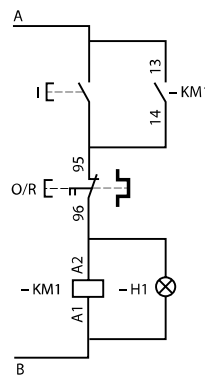
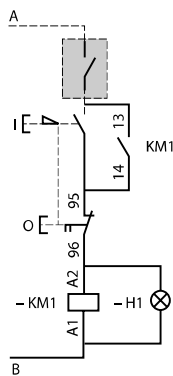
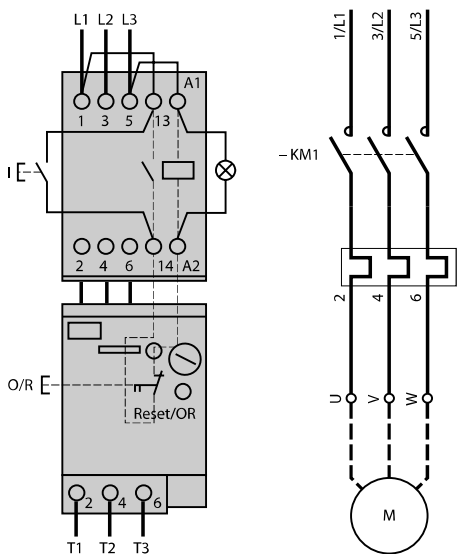
Schemes

LE1 M35

Choice of type of control built into the product

Control by latching pushbuttons

Control by spring return pushbuttons



Connection	A	B
220 V, 230 V, 240 V	L3	Neutral
380 V, 400 V, 415 V, 440 V	L3	L1
Other voltages	Terminal 1	Terminal 2