

Characteristics, references

TeSys enclosed starters D.O.L. starters for motor control (1) 2.2 to 45 kW, without isolating device



Characteristics	
Conforming to standards	IEC 60947-4-1 and IEC 60439-1, VDE 0660-102, EN 60947
Degree of protection conforming to IEC 60529	IP 659: LE2 K IP 657: LE D09...D35 IP 557: LE D405...D955
Ambient air temperature	Operation: -5...+40 °C
Operating positions	Same as that of the contactors
Material	Polycarbonate (2): LE2 K and LE D09...D35 Sheet steel: LE D405...D955

References



Non-reversing starters								Basic reference, to be completed by adding the voltage code (3)	Weight kg
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3							Maximum current I _n the up to		
220 V	380 V	415 V	440 V	500 V	660 V	690 V		A	
2.2	4	4	4	5.5	5.5	9	9	LE1 D09	0.920
3	5.5	5.5	5.5	7.5	7.5	12	12	LE1 D12	0.920
4	7.5	9	9	10	10	18	18	LE1 D18	1.015
5.5	11	11	11	15	15	25	25	LE1 D25	1.015
7.5	15	15	15	18.5	18.5	35	35	LE1 D35	4.320
11	18.5	22	22	22	30	40	40	LE1 D405	4.820
15	22	25	30	30	33	50	50	LE1 D505	4.850
18.5	30	37	37	37	37	65	65	LE1 D655	4.850
22	37	45	45	55	45	80	80	LE1 D805	5.140
25	45	45	45	55	45	95	95	LE1 D955	5.440



Reversing starters								Basic reference, to be completed by adding the voltage code (3)	Weight kg
1.5	2.2	2.2	3	-	-	6			
1.5	2.2	2.2	3	-	-	6	6	LE2 K065	1.080
2.2	4	4	4	-	-	9	9	LE2 K095	1.080
-	-	-	-	5.5	5.5	9	9	LE2 D09 (4)	2.100
-	-	-	-	5.5	5.5	9	9	LE2 D09	2.100
3	5.5	5.5	5.5	7.5	7.5	12	12	LE2 D12	2.100
4	7.5	9	9	10	10	18	18	LE2 D18	2.410
5.5	11	11	11	15	15	25	25	LE2 D25	2.570
7.5	15	15	15	18.5	18.5	35	35	LE2 D35	4.100
11	18.5	22	22	22	30	40	40	LE2 D405	5.270
15	22	25	30	30	33	50	50	LE2 D505	5.470
18.5	30	37	37	37	37	65	65	LE2 D655	5.470
22	37	45	45	55	45	80	80	LE2 D805	6.700
25	45	45	45	55	45	95	95	LE2 D955	7.000

(1) Overload protection must be provided by a thermal overload relay, to be ordered separately, see pages 6/20 to 6/23.

(2) Avoid placing this material in contact with harsh substances (detergents, chlorine solvents, ketones, alcohol, aromatic hydrocarbons).

(3) Standard control circuit voltages.

Volts ~ 50/60 Hz	24	42	48	110	115	220	230	240	380	400	415	440
LE2 K	B7	D7	E7	F7	-	M7	P7	U7	Q7	V7	N7	R7
LE1, LE2 D	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7

Other voltages: please consult your Regional Sales Office.

(4) Selection according to the number of operating cycles, please consult your Regional Sales Office.