



LE2K09●●●



LR2K●●



LE2D12●●●



LRD●●

Reverse Control + Isolation + Protection against Overloads

- ON/REVERSE/OFF motor starters: 2-way rotation control of 3-phase motor
 - by black I-II position spring return selector, red STOP/RESET pushbuttons for LE2K●● starters
 - by black ON ↑, ON ↓ pushbuttons, red STOP/RESET pushbutton for LE2D●● starters
 - Motor protection against overload: manual reset with the red pushbutton or remotely.
- An LR2K or LRD overload relay of the required rating must be ordered separately and wired at bottom of the contactor.

Ranges:

- for 3P motors from 4 to 30 kW (9 to 65 A AC-3), in 11 ranges of reverser starters
- Choice of up to 7 AC coils voltages (depending on starter) for control supply circuit.

Enclosures characteristics:

- Conforming to IEC 60947-4-1 standard
- Degree of protection according IEC 60529: IP65, IK07 for LE2D09●●●D35, IK09 for LE2K and LE●D40A●●●D65A,
- Ambient air temperature in operation -5 to +40°C
- Operating position: same that as contactors
- Material: LE2K and LE●D09●●●D35 polycarbonate ⁽²⁾
- LE●D40A●●● D65A steel sheet.

Included:

- 2 pre-wired LC1K or LC1D contactor
- 3 Harmony XB5 pushbuttons - or -1 Harmony XB5 pushbutton + 1 Harmony XB5 switch.

Reversing starters

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3							Maximum current I the up to	Basic reference, to be completed by adding the voltage code ⁽³⁾	Weight	Overall dimensions ⁽⁴⁾ WxHxD
220 V	380 V	415 V	440 V	500 V	660 V	690 V				
230 V	400 V						A		kg	
1.5	2.2	2.2	3	—	—	—	6	LE2K065●●	1.080	175x165x146
2.2	4	4	4	—	—	—	9	LE2K095●●	1.080	175x165x146
—	—	—	—	—	—	—	—	LE2D09●● ⁽⁵⁾	2.100	101x201x153.5
—	—	—	—	5.5	5.5	—	9	LE2D09●●	2.100	101x201x153.5
3	5.5	5.5	5.5	7.5	7.5	—	12	LE2D12●●	2.100	101x201x153.5
4	7.5	9	9	10	10	—	18	LE2D18●●	2.410	101x201x153.5
5.5	11	11	11	15	15	—	25	LE2D25●●	2.570	101x201x153.5
7.5	15	15	15	18.5	18.5	—	35	LE2D35●●	4.100	101x201x153.5
11	18.5	22	22	22	30	—	40	LE2D40A●●	5.270	200x300x174
15	22	25	30	30	33	—	50	LE2D50A●●	5.470	200x300x174
18.5	30	37	37	37	37	—	65	LE2D65A●●	5.470	200x300x174

Coil voltage codes ⁽³⁾

Volts ~ 50/60 Hz	24	48	110	115	120	220	230	240	380	400	415	440
LE2D40A to D65A	—	—	—	FE7	—	—	P7	—	Q7	—	—	—
LE2D09 to D35	B7	—	—	—	—	M7	P7	U7	Q7	V7	N7	—
LE2K	—	—	—	—	—	M7	P7	U7	Q7	V7	—	—

⁽¹⁾ TeSys LR2K, LRD overload relay selection: product references page A1/33, more details in chapter B11.

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

⁽³⁾ Some combinations of variants / control voltage may not be available. Please consult us.

⁽⁴⁾ Dimensions of standard versions, comprising (if any) handle, pushbutton, indicator light.

⁽⁵⁾ Selection according to dimensions and the number of operating cycles, please consult your Regional Sales Office.





LE8K●●●●



LR2K●●



LE8D●●●●



LRD●●



LE8D●●●●

Reverse Control + Isolation + Protection against Short circuits and Overloads

- ON/REVERSE/OFF motor starters: 2-way rotation control of 3-phase motor
 - LE8K●●starters, by white ↑, black ↓, red Stop/Reset pushbuttons
 - LE8D●● starters, by black I-II position spring return selector, red Stop/Reset pushbutton
 - Option: no pushbutton on cover
 - Circuit disconnection by side black handle
 - Protection against short circuits by NFC fuses type aM (to be ordered separately)
 - Motor protection against overload: manual reset with the red pushbutton or remotely. LE8D option: cover with just a "Reset" blue pushbutton.
- An LR2K or LRD overload relay of the required rating must be ordered separately and wired at bottom of a the contactor.

Ranges:

- 8 partially pre-equipped enclosures to build-up 3P motor reversers from 2.2 to 15 kW (6 to 35 A AC-3)
- Choice of 3 coils for control with different AC voltages.

Enclosures characteristics:

- Conforming to IEC 60947-4-1 standard
- Degree of protection according IEC 60529: IP65, IK09 for LE8KIP65, IK07 for LE8D
- Ambient air temperature in operation -5 to +40°C
- Operating position: same that as contactors
- Material: LE8K and LE8D09●●●D35 polycarbonate ⁽²⁾.

Included:

- 1 fuse carrier with external side handle
- 2 pre-wired LC1K or LC1D contactors
- 3 Harmony XB5 pushbuttons - or -1 Harmony XB5 pushbutton + 1 Harmony XB5 switch.

Reversing starters

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3							Maximum current I _b the up to	Fuses to be fitted by the customer		Basic reference, to be completed by adding the voltage code ^{(3) (4)}	Weight	Overall dimensions ⁽⁵⁾ WxHxD
220 V	380 V	415 V	440 V	500 V	660 V	690 V		Size	Type aM			
kW	kW	kW	kW	kW	kW	kW	A		A		kg	
1.5	2.2	2.2	3	—	—	—	6	10 x 38	10	LE8K065●●	1.600	206x165x146
2.2	4	4	4	—	—	—	9	10 x 38	12	LE8K095●●	1.600	206x165x146
—	—	—	—	5.5	—	—	9	10 x 38	12	or LE8D09●● ⁽⁶⁾	3.550	217x348x182
—	—	—	—	5.5	—	—	9	10 x 38	12	LE8D09●●	3.550	217x348x182
3	5.5	5.5	5.5	7.5	—	—	12	10 x 38	16	LE8D12●●	3.550	217x348x182
4	7.5	9	9	10	—	—	18	10 x 38	20	LE8D18●●	3.700	217x348x182
5.5	11	11	11	15	—	—	25	10 x 38	25	LE8D25●●	4.670	217x348x182
7.5	15	15	15	18.5	18.5	—	35	14 x 51	32	LE8D35●●	5.800	217x348x182

Voltage codes ⁽⁴⁾

Volts	24	48	110	115	120	220	230	240	380	400	415	440
~ 50/60 Hz												
LE8 K, LE8 D	—	—	—	—	—	—	P7	—	Q7	V7	—	—

⁽¹⁾ TeSys LR2K, LRD overload relay selection: product references page A1/33, more details in chapter B11.

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

⁽³⁾ LE8K●●●●, LE8D●●●● (with P7 and V7 coil) with no pushbutton on cover: add "A04" to product reference (example: LE8K095P7A04, LE8D25V7A04) LE4D●●●● (with P7 and V7 coil) with only one pushbutton on cover: overload "Reset" blue pushbutton > add "A05" to full product reference.

⁽⁴⁾ Some combinations of variants / control voltage may not be available. Please consult us.

⁽⁵⁾ Dimensions of standard versions, comprising (if any) handle, pushbutton, indicator light.

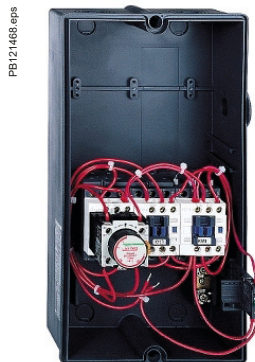
⁽⁶⁾ Selection according to dimensions and the number of operating cycles, please consult your Regional Sales Office.



LE3D



LRD●●



LE3D

Star-delta Control + Protection against Overload

- Star-delta starting of 3-phase motor: ON by green pushbutton, OFF by red pushbutton. Option: no pushbutton on cover
- Maximum operating rate: 30 starts/hour.
- Maximum starting time: 30 seconds.
- Delay of 40 ms ±15 ms at changeover by LAD S2 timer on delta contactor to provide sufficient time for star contactor to break.
- Motor protection against overload: manual reset with the red pushbutton or remotely.

An LRD overload relay of the required rating must be ordered separately and wired at bottom of the contactor.

Range:

- 4 partially pre-equipped enclosures to build-up 3P motor starters from 7.5 to 30 kW.
- Choice of 7 coils for control with different AC voltages.

Enclosures characteristics:

- Conforming to IEC 60947-4-1 standard
- Degree of protection according IEC 60529: IP65, IK07
- Ambient air temperature in operation -5 to +40°C
- Operating position: same that as contactors
- Material: polycarbonate ⁽²⁾.

Included:

- 3 pre-wired LC1D contactors
- 2 Harmony XB5 pushbuttons.

Star-delta starters

Standard power ratings of squirrel cage motors Mains voltage - delta connection				Basic reference, to be completed by adding the voltage code ⁽³⁾ ⁽⁴⁾	Weight	Overall dimensions ⁽⁵⁾ WxHxD
220 V	380/400 V	415 V	440 V			
V	V	V	V		kg	
kW	kW	kW	kW			
4	7.5	7.5	7.5	LE3D09●●	3.650	186x348x175.5
5.5	11	11	11	LE3D12●●	3.650	186x348x175.5
11	18.5	22	22	LE3D18●●	3.750	186x348x175.5
15	30	30	30	LE3D35●●	5.160	186x348x175.5

Voltage codes ⁽⁴⁾

Volts ~ 50/60 Hz	24	220	230	240	380	400	415
LE3 D	B7	M7	P7	U7	Q7	V7	N7

⁽¹⁾ TeSys LRD overload relay selection: product references page A1/33, more details in chapter B11 - Select appropriate overload relay for setting at 0.58 of the full load rated motor current.

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

⁽³⁾ LE3D●●●● (with P7 and V7 coil) with no pushbutton on cover: add "A04" to product reference (example: LE3D18P7A04).

⁽⁴⁾ Some combinations of variants / control voltage may not be available. Please consult us.

⁽⁵⁾ Dimensions of standard versions, comprising (if any) handle, pushbutton, indicator light.

