

TeSys enclosed starters

Enclosed D.O.L. starters for motor control for use on a machine subject to the application of Machinery Directive 98/37/CE ⁽¹⁾



LG7 K06



LG7 D12 with padlocking facility fitted as standard

Non-reversing starters (with pushbutton control of isolation)					
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit-breaker Setting range of thermal trips	Dust & damp protected starter Basic reference, to be completed by adding the voltage code ^{(2) (3)}	Weight
220/230 V	400/415 V	440 V	A		kg
–	0.06	0.06	0.16...0.25	LG7 K06●●02	1.300
0.06	0.09	0.12	0.25...0.40	LG7 K06●●03	1.300
–	0.18	0.18	0.40...0.63	LG7 K06●●04	1.300
0.12	0.25	0.37	0.63...1	LG7 K06●●05	1.300
0.25	0.55	0.55	1...1.6	LG7 K06●●06	1.300
0.37	0.75	1.1	1.6...2.5	LG7 K06●●07	1.300
0.75	1.5	1.5	2.5...4	LG7 K06●●08	1.300
1.1	2.2	3	4...6.3	LG7 K06●●10	1.300
1.5	4	4	6...10	LG7 K09●●14	1.450
3	5.5	5.5	9...14	LG7 D12●●16	1.600
4	7.5	9	13...18	LG7 D18●●20	1.630
4	9	9	17...23	LG7 D18●●21	1.630

Specifications

Functions performed by the starter:

- isolation,
- locking of isolation fitted as standard as from LG7 K09,
- lockable Emergency Stop (1/4 turn) ⁽³⁾,
- short-circuit protection,
- overload protection,
- pushbutton control: 1 white Start button "I" and 1 black Stop button "O",
- degree of protection of enclosure: IP 657, double insulated.

Switching back on of power supply after tripping must be by a deliberate action.

A GV2 SN●● indicator light may be added (to be assembled by customer), please consult your Regional Sales Office.

For supply voltages between 380 and 415 V (codes Q7, V7 or N7) the control circuit is pre-wired between phases. For other supply voltages, the control circuit must be wired by the customer.

Variants (pre-assembled)

See page 2/45.

⁽¹⁾ Compliance with a harmonised European standard assumes conformity with the corresponding directive, provided that installation, building in and/or assembly of the starter is carried out correctly by the machine manufacturer.

Harmonised European standards: EN 60947 and EN 60439.

Conformity to international standards: IEC 60947 and IEC 60439.

⁽²⁾ Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

LG7 K																
Volts ~ 50/60 Hz	12	24	36	42	48	110	127	220/230	230	230/240	380/400	400	400/415	440	500	660/690
Code	J7	B7	C7	D7	E7	F7	FC7	M7	P7	U7	Q7	V7	N7	R7	S7	Y7

LG7 D											
Volts ~ 50/60 Hz	24	42	48	110	220/230	230	240	380/400	400	415	440
Code	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7

⁽³⁾ LG7 K06: the mushroom head type Emergency Stop acts mechanically on the circuit-breaker.

LG7 K09, D12, D18: the Emergency Stop function is performed by an undervoltage trip, acting on the circuit-breaker.

This circuit-breaker is always supplied pre-wired for use on 380/415 V 50 Hz. For a 60 Hz supply, please consult your Regional Sales Office.

Other versions

Starters for voltages other than those indicated above. Please consult your Regional Sales Office.

TeSys enclosed starters

Enclosed D.O.L. starters for motor control for use on a machine subject to the application of Machinery Directive 98/37/CE ⁽¹⁾



LG1 K

Non-reversing starters (with rotary operator for control of isolation)

Enclosure cannot be opened when energised in position "I".

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit-breaker Setting range of thermal trips	Dust & damp protected starter Basic reference, to be completed by adding the voltage code ⁽²⁾	Weight
220/230 V	400/415 V	440 V	A		kg
–	0.06	0.06	0.16...0.25	LG1 K065●●02	0.970
0.06	0.09	0.12	0.25...0.40	LG1 K065●●03	0.970
–	0.18	0.18	0.40...0.63	LG1 K065●●04	0.970
0.12	0.25	0.25	0.63...1	LG1 K065●●05	0.970
0.25	0.55	0.55	1...1.6	LG1 K065●●06	0.970
0.37	0.75	1.1	1.6...2.5	LG1 K065●●07	0.970
0.75	1.5	1.5	2.5...4	LG1 K065●●08	0.970
1.1	2.2	3	4...6.3	LG1 K065●●10	0.970
1.5	4	4	6...10	LG1 K095●●14	1.120
3	5.5	5.5	9...14	LG1 D122●●16	1.270
4	7.5	9	13...18	LG1 D182●●20	1.290
4	9	9	17...23	LG1 D182●●21	1.290

Specifications

Functions performed by the starter:

- isolation,
- locking of isolation,
- lockable Emergency Stop (red/yellow switch disconnecter),
- short-circuit protection,
- overload protection,
- pushbutton control: 1 white Start button "I" and 1 black Stop button "O",
- degree of protection of enclosure: IP 657, double insulated.

Switching back on of power supply after tripping must be by a deliberate action.

A GV2 SN●● indicator light may be added (to be assembled by customer), please consult your Regional Sales Office.

For supply voltages between 380 and 415 V (codes Q7, V7 or N7) the control circuit is pre-wired between phases. For other supply voltages, the control circuit must be wired by the customer.

Variants (pre-assembled)

See page 2/45.

⁽¹⁾ Compliance with a harmonised European standard assumes conformity with the corresponding directive, provided that installation, building in and/or assembly of the starter is carried out correctly by the machine manufacturer.

Harmonised European standards: EN 60947 and EN 60439.

Conformity to international standards: IEC 60947 and IEC 60439.

⁽²⁾ Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

LG1 K																
Volts ~ 50/60 Hz	12	24	36	42	48	110	127	220/230	230	230/240	380/400	400	400/415	440	500	660/690
Code	J7	B7	C7	D7	E7	F7	FC7	M7	P7	U7	Q7	V7	N7	R7	S7	Y7

LG1 D											
Volts ~ 50/60 Hz	24	42	48	110	220/230	230	240	380/400	400	415	440
Code	B7	D7	E7	F7	M7	P7	U7	Q7	V7	N7	R7

Other versions

Starters for voltages other than those indicated above. Please consult your Regional Sales Office.

TeSys enclosed starters

Application of Machinery Directive 98/37/CE ⁽¹⁾



LG8 K06



LG8 K09 with padlocking facility fitted as standard

Reversing starters (with pushbutton control of isolation)						
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3			Circuit-breaker Setting range of thermal trips	Dust & damp protected starter Basic reference, to be completed by adding the voltage code ^{(2) (3)}	Weight	
220/230 V	400/415 V	440 V				
kW	kW	kW	A			kg
–	0.06	0.06	0.16...0.25	LG8 K06●●02		1.640
0.06	0.09	0.12	0.25...0.40	LG8 K06●●03		1.640
–	0.18	0.18	0.40...0.63	LG8 K06●●04		1.640
0.12	0.25	0.25	0.63...1	LG8 K06●●05		1.640
0.25	0.55	0.55	1...1.6	LG8 K06●●06		1.640
0.37	0.75	1.1	1.6...2.5	LG8 K06●●07		1.640
0.75	1.5	1.5	2.5...4	LG8 K06●●08		1.640
1.1	2.2	3	4...6.3	LG8 K06●●10		1.640
1.5	4	4	6...10	LG8 K09●●14		1.640
3	5.5	5.5	9...14	LG8 K12●●16		1.640

Specifications of reversing starters

Functions performed by the starter:

- isolation,
- locking of isolation fitted as standard as from LG8 K09,
- Emergency stop ⁽³⁾,
- short-circuit protection,
- overload protection,
- control by selector switch "1-2", position non maintained,
- degree of protection of enclosure: IP 657, double insulated.

Switching back on of power supply after tripping must be by a deliberate action.

A GV2 SN●● indicator light may be added (to be assembled by customer), please consult your Regional Sales Office.

For supply voltages between 380 and 415 V (codes Q7, V7 or N7) the control circuit is pre-wired between phases. For other supply voltages, the control circuit must be wired by the customer.

Variants (pre-assembled)

See page 2/45.

⁽¹⁾ Compliance with a harmonised European standard assumes conformity with the corresponding directive, provided that installation, building in and/or assembly of the starter is carried out correctly by the machine manufacturer.

Harmonised European standards: EN 60947 and EN 60439.

Conformity to international standards: IEC 60947 and IEC 60439.

⁽²⁾ Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts ~ 50/60 Hz	12	24	36	42	48	110	127	220/230	230	230/240	380/400	400	400/415	440	500	660/690
Code	J7	B7	C7	D7	E7	F7	FC7	M7	P7	U7	Q7	V7	N7	R7	S7	Y7

⁽³⁾ LG8 K06: the mushroom head type Emergency Stop acts mechanically on the circuit-breaker.

LG8 K09: the Emergency Stop function is performed by an undervoltage trip, acting on the circuit-breaker. This circuit-breaker is always supplied pre-wired for use on 380/415 V 50 Hz. For a 60 Hz supply, please consult your Regional Sales Office.

Other versions

Starters for higher power ratings. Please consult your Regional Sales Office.

TeSys enclosed starters

Application of Machinery Directive 98/37/CE ⁽¹⁾

Variants		
Description	Application	Suffix to be added to the starter reference ⁽²⁾
With Emergency Stop No control pushbuttons	LG1, LG7, LG8	A04
With Emergency Stop 2 pushbuttons with arrows "↑" and "↓" (latching) 1 Stop button "O"	LG8 K06	A10
Without Emergency Stop 2 pushbuttons with arrows "↑" and "↓" (non latching)	LG8	A14
Without Emergency Stop With Emergency Stop, mushroom head	LG1	A37
Without Emergency Stop (when the Emergency Stop is on the machine)	LG7, LG8	A39
With padlocking facility (fitted as standard as from LG1 K09 or LG7 K09)	LG1 K06, LG7 K06	A29
1 neutral terminal Fitted as standard on starters ordered for use on 240 V (U7) supply	LG1, LG7, LG8	A59
Short-circuit signalling block	LG7	A12
Vacuum valve for compressor	LG7 D	A40
Without circuit-breaker	LG1, LG7, LG8	⁽³⁾

Possible combinations of variants for the selected starter type ⁽⁴⁾									
Starter type	A04	A10	A12	A14	A29	A37	A39	A40	A59
LG1 K	■	■	■	■	■	⁽⁵⁾ ■	■	■	■
LG7 K06	■	■	■	■	■	■	■	■	■
LG7 K09	■	■	■	■	■	■	■	■	■
LG7 D12	■	■	■	■	■	■	■	■	■
LG8 K06	■	■	■	■	■	■	■	■	■
LG8 K09	■	■	■	■	■	■	■	■	■

■ Combination possible

■ Combination not possible

⁽¹⁾ Compliance with a harmonised European standard assumes conformity with the corresponding directive, provided that installation, building in and/or assembly of the starter is carried out correctly by the machine manufacturer.

Harmonised European standards: EN 60947 and EN 60439.

Conformity to international standards: IEC 60947 and IEC 60439.

⁽²⁾ Example: **LG7 D12M716A04**.

⁽³⁾ Delete the last 2 digits of the selected starter reference. Example: **LG1 K065●●08** becomes **LG1 K065●●**.

⁽⁴⁾ Example: **LG8 K095●●A04A39A59**.

⁽⁵⁾ **LG1 K06**: the mushroom head type Emergency Stop acts mechanically on the circuit-breaker.

LG1 K09, D12, D18: the Emergency Stop function is performed by an undervoltage trip, acting on the circuit-breaker. This circuit-breaker is always supplied pre-wired for use on 380/415 V 50 Hz. For a 60 Hz supply, please consult your Regional Sales Office.