

### Applications

Circuit-breaker/contactor/drive combinations can be used to ensure continuous service of the installation with optimum safety.

The type of circuit-breaker/contactor coordination selected can reduce maintenance costs in the event of a motor short-circuit by minimizing the time required to make the necessary repairs and the cost of replacement equipment. The suggested combinations provide type 1 or type 2 coordination depending on the drive rating.

**Type 2 coordination:** A motor short-circuit will not damage the device or affect its settings. The motor starter must be able to operate once the electrical fault has been removed. The electrical isolation provided by the circuit-breaker will not be affected by the short-circuit. Welding of the contactor contacts is permissible if they can be separated easily.

**Type 1 coordination:** The electrical isolation provided by the circuit-breaker will not be affected by the incident and no other elements apart from the contactor are damaged as a result of the motor short-circuit.

The drive controls the motor, provides protection against short-circuits between the drive and the motor and protects the motor cable against overloads. The overload protection is provided by the drive's motor thermal protection. If this protection is removed, external thermal protection must be provided.

Before restarting the installation, the cause of the trip must be removed.

### Motor starters for IP 20 drives

Motor		Drive	Circuit-breaker	Rating I <sub>rm</sub>		Line contactor
Power (1)	HP	Reference	Reference (2)	A	A	Reference (3) (4)
<b>Single-phase supply voltage: 200...240 V 50/60 Hz. Type 2 coordination</b>						
0.37	0.5	ATV 61H075M3	GV2 L14	10	–	LC1 D09●●
0.75	1	ATV 61HU15M3	GV2 L16	14	–	LC1 D18●●
1.5	2	ATV 61HU22M3	GV2 L20	18	–	LC1 D25●●
2.2	3	ATV 61HU30M3	GV2 L32	32	–	LC1 D32●●
3	–	ATV 61HU40M3	GV2 L32	32	–	LC1 D32●●
4	5	ATV 61HU55M3	GV3 L40	40	–	LC1 D40A●●
5.5	7.5	ATV 61HU75M3	GV3 L50	50	–	LC1 D50A●●
<b>Single-phase supply voltage: 200...240 V 50/60 Hz. Type 1 coordination</b>						
0.37	0.5	ATV 61H075M3	GV2 L14	10	–	LC1 D09●●
0.75	1	ATV 61HU15M3	GV2 L16	14	–	LC1 D09●●
1.5	2	ATV 61HU22M3	GV2 L20	18	–	LC1 D09●●
2.2	3	ATV 61HU30M3	GV2 L32	32	–	LC1 D18●●
3	–	ATV 61HU40M3	GV2 L32	32	–	LC1 D18●●
4	5	ATV 61HU55M3	GV3 L40	40	300	LC1 D32●●
5.5	7.5	ATV 61HU75M3	GV3 L50	50	300	LC1 D38●●

(1) Standard power ratings for 230 V 50/60 Hz 4-pole motors  
The HP values given are NEC-compliant (National Electrical Code).

(2) Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 240 V
GV2 L14, GV2 L16	130
GV2 L20, GV2 L32	50
GV3 L40, GV3 L50	50

(3) Composition of contactors:

LC1 D09 to LC1 D50A: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

(4) Replace ●● with the control circuit voltage reference indicated in the table below.

	Volts ~	24	48	110	220	230	240
LC1 D●●	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.

(5) A line choke must be added (see page 70).



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GV2 L20

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LC1 D25●●

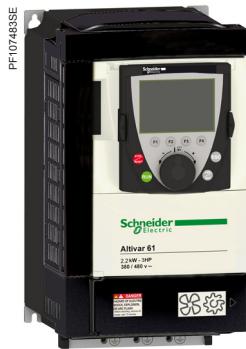
+  
ATV 61HU22M3



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+



GV3 L40  
+  
LC1 D40A●●  
+  
ATV 61HU55M3

Motor starters for IP 20 drives						
Motor Power (1)	Drive Reference	Circuit-breaker Reference (2)	Rating	I <sub>rm</sub>	Line contactor Reference (3) (4)	
kW	HP		A	A		
<b>Three-phase supply voltage: 200...240 V 50/60 Hz. Type 2 coordination</b>						
0.75	1	ATV 61H075M3	GV2 L10	6.3	–	LC1 D09●●
1.5	2	ATV 61HU15M3	GV2 L16	14	–	LC1 D18●●
2.2	3	ATV 61HU22M3	GV2 L20	18	–	LC1 D18●●
3	–	ATV 61HU30M3	GV2 L22	25	–	LC1 D25●●
4	5	ATV 61HU40M3	GV2 L32	32	–	LC1 D25●●
5.5	7.5	ATV 61HU55M3	GV3 L40	40	–	LC1 D40A●●
7.5	10	ATV 61HU75M3	GV3 L50	50	–	LC1 D50A●●
11	15	ATV 61HD11M3X	GV3 L65	65	–	LC1 D65A●●
15	20	ATV 61HD15M3X	NS80HMA80	80	480	LC1 D80●●
18.5	25	ATV 61HD18M3X	NS80HMA80	80	480	LC1 D80●●
22	30	ATV 61HD22M3X	NSX100●MA100	100	600	LC1 D95●●
30	40	ATV 61HD30M3X	NSX160●MA150	150	1350	LC1 D150●●
37	50	ATV 61HD37M3X	NSX160●MA150	150	1350	LC1 D150●●
45	60	ATV 61HD45M3X	NSX250●MA220	220	1980	LC1 F185●●
55	75	ATV 61HD55M3X	NSX250●MA220	220	1980	LC1 F225●●
75	100	ATV 61HD75M3X	NSX400● Micrologic 1.3M	320	1920	LC1 F265●●
90	125	ATV 61HD90M3X	NSX630● Micrologic 1.3M	500	3000	LC1 F330●●
<b>Three-phase supply voltage: 200...240 V 50/60 Hz. Type 1 coordination</b>						
0.75	1	ATV 61H075M3	GV2 L10	6.3	–	LC1 D09●●
1.5	2	ATV 61HU15M3	GV2 L16	14	–	LC1 D09●●
2.2	3	ATV 61HU22M3	GV2 L20	18	–	LC1 D09●●
3	–	ATV 61HU30M3	GV2 L22	25	–	LC1 D18●●
4	5	ATV 61HU40M3	GV2 L32	32	–	LC1 D18●●
5.5	7.5	ATV 61HU55M3	GV3 L40	40	–	LC1 D25●●
7.5	10	ATV 61HU75M3	GV3 L50	50	–	LC1 D32●●
11	15	ATV 61HD11M3X	GV3 L65	65	–	LC1 D40A●●
15	20	ATV 61HD15M3X	NS80HMA80	80	480	LC1 D50A●●
18.5	25	ATV 61HD18M3X	NS80HMA80	80	480	LC1 D50A●●
22	30	ATV 61HD22M3X	NSX100●MA100	100	600	LC1 D80●●
30	40	ATV 61HD30M3X	NSX160●MA150	150	1350	LC1 D95●●
37	50	ATV 61HD37M3X	NSX160●MA150	150	1350	LC1 D115●●
45	60	ATV 61HD45M3X	NSX250●MA220	220	1980	LC1 D115●●
55	75	ATV 61HD55M3X	NSX250●MA220	220	1980	LC1 D115●●
75	100	ATV 61HD75M3X	NSX400● Micrologic 1.3M	320	1920	LC1 F185●●
90	125	ATV 61HD90M3X	NSX630● Micrologic 1.3M	500	3000	LC1 F265●●

(1) Standard power ratings for 230 V 50/60 Hz 4-pole motors

The HP values given are NEC-compliant (National Electrical Code).

(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).

Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 240 V						
	B	F	N	H	S	L	
GV2 L10	–	–	–	–	–	–	
GV2 L16...L32	–	–	–	–	–	–	
GV3 L40...L65	–	–	–	–	–	–	
NS80HMA	–	–	–	–	–	–	
NSX100●MA...NSX250●MA	40	85	90	100	120	150	
NSX400●, NSX630●	–	40	85	100	120	150	

(3) Composition of contactors:

LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F185 to LC1 F330: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(4) Replace ●● with the control circuit voltage reference indicated in the table below.

Line contactor	Volts ~	24	48	110	220	230	240
		B5	E5	F5	M5	P5	U5
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185, F225	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7
LC1 F265, LC1 F330	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX160●MA150  
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LC1 D115●●  
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ATV 61HD45N4

Motor starters for IP 20 drives

Motor		Drive	Circuit-breaker		Line contactor	
Power (1)	HP	Reference	Reference (2)	Rating	I <sub>rm</sub>	Reference (4) (5)
kW	HP			A	A	
Three-phase supply voltage: 380...415 V 50/60 Hz. Type 2 coordination						
0.75	1	ATV 61H075N4	GV2 L08	4	–	LC1 D09●●
1.5	2	ATV 61HU15N4	GV2 L10	6.3	–	LC1 D09●●
2.2	3	ATV 61HU22N4	GV2 L14	10	–	LC1 D25●●
3	–	ATV 61HU30N4	GV2 L16	14	–	LC1 D25●●
4	5	ATV 61HU40N4	GV2 L16	14	–	LC1 D25●●
5.5	7.5	ATV 61HU55N4	GV2 L22	25	–	LC1 D25●●
7.5	10	ATV 61HU75N4	GV3 L32	32	–	LC1 D40A●●
11	15	ATV 61HD11N4	GV3 L40	40	–	LC1 D50A●●
15	20	ATV 61HD15N4	GV3 L50	50	–	LC1 D65A●●
18.5	25	ATV 61HD18N4	GV3 L50	50	–	LC1 D65A●●
22	30	ATV 61HD22N4	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61HD30N4	NS80HMA80	80	480	LC1 D80●●
37	50	ATV 61HD37N4	NSX100●MA100	100	600	LC1 D95●●
45	60	ATV 61HD45N4	NSX160●MA150	150	1350	LC1 D115●●
55	75	ATV 61HD55N4	NSX160●MA150	150	1350	LC1 D150●●
75	100	ATV 61HD75N4	NSX250●MA220	220	1980	LC1 F185●●
90	125	ATV 61HD90N4	NSX250●MA220	220	1980	LC1 F185●●
110	150	ATV 61HC11N4	NSX250●MA220	220	1980	LC1 F225●●
132	200	ATV 61HC13N4	NSX400● Micrologic 1.3M	320	1920	LC1 F265●●
160	250	ATV 61HC16N4	NSX400● Micrologic 1.3M	320	1920	LC1 F330●●
200	300	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
220	350	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
250	400	ATV 61HC25N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
280	450	ATV 61HC31N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
315	500	ATV 61HC31N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
355	–	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
400	600	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F800●●
500	700	ATV 61HC50N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 BL●●
560	800	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 BM●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors  
The HP values given are NEC-compliant (National Electrical Code).  
(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).  
Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 400 V						
	B	F	N	H	S	L	
GV2 L08...L16 (3)	130	–	–	–	–	–	
GV2 L16 (3), GV2 L22 GV3 L32...L65	50	–	–	–	–	–	
NS80HMA	70	–	–	–	–	–	
NSX100●MA...NSX250●MA	–	25	36	50	70	100	
NSX400●, NSX630●	–	–	36	50	70	100	
NS800L Micrologic 2 or 5 NS1000L Micrologic 2 or 5	–	–	–	–	–	150	

(3) GV2 L16: I<sub>cu</sub> of 130 when combined with an ATV 61HU30N4, I<sub>cu</sub> of 50 when combined with an ATV 61HU40N4.  
(4) Composition of contactors:  
LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.  
LC1 F●●●, LC1 BL and LC1 BM: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.  
(5) Replace ●● with the control circuit voltage reference indicated in the table below.

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185, F225	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7
LC1 F265, F330	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7
LC1 F400...F800	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7
LC1 BL, LC1 BM	50...400 Hz (WB1 coil)	–	–	F	M	P	U

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX100●MA100  
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LC1 D95●●  
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ATV 61HD37N4

### Motor starters for IP 20 drives

Motor Power (1)		Drive Reference	Circuit-breaker Reference (2)	Rating I <sub>rm</sub>		Line contactor Reference (3) (4)
kW	HP			A	A	
<b>Three-phase supply voltage: 380...415 V 50/60 Hz. Type 1 coordination</b>						
0.75	1	ATV 61H075N4	GV2 L08	4	–	LC1 D09●●
1.5	2	ATV 61HU15N4	GV2 L10	6.3	–	LC1 D09●●
2.2	3	ATV 61HU22N4	GV2 L14	10	–	LC1 D09●●
3	–	ATV 61HU30N4	GV2 L16	14	–	LC1 D09●●
4	5	ATV 61HU40N4	GV2 L16	14	–	LC1 D18●●
5.5	7.5	ATV 61HU55N4	GV2 L22	25	–	LC1 D25●●
7.5	10	ATV 61HU75N4	GV3 L32	32	–	LC1 D40A●●
11	15	ATV 61HD11N4	GV3 L40	40	–	LC1 D40A●●
15	20	ATV 61HD15N4	GV3 L50	50	–	LC1 D50A●●
18.5	25	ATV 61HD18N4	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61HD22N4	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61HD30N4	NS80HMA80	80	480	LC1 D65A●●
37	50	ATV 61HD37N4	NSX100●MA100	100	600	LC1 D95●●
45	60	ATV 61HD45N4	NSX160●MA150	150	1350	LC1 D115●●
55	75	ATV 61HD55N4	NSX160●MA150	150	1350	LC1 D115●●
75	100	ATV 61HD75N4	NSX250●MA220	220	1980	LC1 F185●●
90	125	ATV 61HD90N4	NSX250●MA220	220	1980	LC1 F185●●
110	150	ATV 61HC11N4	NSX250●MA220	220	1980	LC1 F225●●
132	200	ATV 61HC13N4	NSX400● Micrologic 1.3M	320	1920	LC1 F265●●
160	250	ATV 61HC16N4	NSX400● Micrologic 1.3M	320	1920	LC1 F330●●
200	300	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
220	350	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
250	400	ATV 61HC25N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
280	450	ATV 61HC31N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
315	500	ATV 61HC31N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
355	–	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
400	600	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
500	700	ATV 61HC50N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F630●●
560	800	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F630●●
630	900	ATV 61HC63N4	NS1250 Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F630●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors

The HP values given are NEC-compliant (National Electrical Code).

(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).

Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 400 V					
	B	F	N	H	S	L
GV2 L08...L14	130	–	–	–	–	–
GV2 L16, GV2 L22 GV3 L32...L65	50	–	–	–	–	–
NS80HMA	70	–	–	–	–	–
NSX100●MA...NSX250●MA	–	25	36	50	100	150
NSX400●, NSX630●	–	–	36	50	100	150
NS800L Micrologic 2 or 5 NS1000L Micrologic 2 or 5	–	–	–	–	–	150
NS1250 Micrologic 2 or 5	–	–	–	50	65	–

(3) Composition of contactors:

LC1 D09 to LC1 D115: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F185 to F630: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(4) Replace ●● with the control circuit voltage reference indicated in the table below.

	Volts ~	24	48	110	220	230	240
LC1 D09...D115	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185, F225	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7
LC1 F265, F330	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7
LC1 F400...F630	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX160●MA150  
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LC1 D115●●  
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ATV 61WD55N4

**Motor starters for IP 54 drives**

Motor Power (1)		Drive Reference	Circuit-breaker Reference (2)	Rating A	I <sub>rm</sub> A	Line contactor Reference (3) (4)
kW	HP					
<b>Three-phase supply voltage: 380...415 V 50/60 Hz. Type 2 coordination</b>						
0.75	1	ATV 61W075N4 ATV 61W075N4C	GV2 L07	2.5	–	LC1 D09●●
1.5	2	ATV 61WU15N4 ATV 61WU15N4C	GV2 L08	4	–	LC1 D09●●
2.2	3	ATV 61WU22N4 ATV 61WU22N4C	GV2 L10	6.3	–	LC1 D09●●
3	–	ATV 61WU30N4 ATV 61WU30N4C	GV2 L14	10	–	LC1 D25●●
4	5	ATV 61WU40N4 ATV 61WU40N4C	GV2 L14	10	–	LC1 D25●●
5.5	7.5	ATV 61WU55N4 ATV 61WU55N4C	GV2 L16	14	–	LC1 D25●●
7.5	10	ATV 61WU75N4 ATV 61WU75N4C	GV3 L32	32	–	LC1 D40A●●
11	15	ATV 61WD11N4 ATV 61WD11N4C	GV3 L40	40	–	LC1 D40A●●
15	20	ATV 61WD15N4 ATV 61WD15N4C	GV3 L50	50	–	LC1 D50A●●
18.5	25	ATV 61WD18N4 ATV 61WD18N4C	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61WD22N4 ATV 61WD22N4C	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61WD30N4 ATV 61WD30N4C	NS80HMA80	80	480	LC1 D80●●
37	50	ATV 61WD37N4 ATV 61WD37N4C	NS80HMA80	80	480	LC1 D80●●
45	60	ATV 61WD45N4 ATV 61WD45N4C	NSX100●MA100	100	600	LC1 D95●●
55	75	ATV 61WD55N4 ATV 61WD55N4C	NSX160●MA150	150	1350	LC1 D115●●
75	100	ATV 61WD75N4 ATV 61WD75N4C	NSX160●MA150	150	1350	LC1 D150●●
90	125	ATV 61WD90N4 ATV 61WD90N4C	NSX250●MA220	220	1980	LC1 F185●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors  
The HP values given are NEC-compliant (National Electrical Code).  
(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).  
Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 400 V					
	B	F	N	H	S	L
GV2 L07...L14	130	–	–	–	–	–
GV2 L16	50	–	–	–	–	–
GV3 L32...L65	–	–	–	–	–	–
NS80HMA	70	–	–	–	–	–
NSX100●MA ...250●MA	–	25	36	50	70	100

(3) Composition of contactors:  
LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.  
LC1 F185: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(4) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



+



+



GV2 L07  
+  
LC1 D09●●  
+  
ATV 61W075N4

Motor starters for IP 54 drives						
Motor Power (1)	Drive Reference	Circuit-breaker Reference (2)	Rating	lrm	Line contactor Reference (3) (4)	
kW	HP		A	A		
<b>Three-phase supply voltage: 380...415 V 50/60 Hz. Type 1 coordination</b>						
0.75	1	ATV 61W075N4 ATV 61W075N4C	GV2 L07	2.5	–	LC1 D09●●
1.5	2	ATV 61WU15N4 ATV 61WU15N4C	GV2 L08	4	–	LC1 D09●●
2.2	3	ATV 61WU22N4 ATV 61WU22N4C	GV2 L10	6.3	–	LC1 D09●●
3	–	ATV 61WU30N4 ATV 61WU30N4C	GV2 L14	10	–	LC1 D09●●
4	5	ATV 61WU40N4 ATV 61WU40N4C	GV2 L14	10	–	LC1 D18●●
5.5	7.5	ATV 61WU55N4 ATV 61WU55N4C	GV2 L16	14	–	LC1 D18●●
7.5	10	ATV 61WU75N4 ATV 61WU75N4C	GV3 L32	32	–	LC1 D25●●
11	15	ATV 61WD11N4 ATV 61WD11N4C	GV3 L40	40	–	LC1 D40A●●
15	20	ATV 61WD15N4 ATV 61WD15N4C	GV3 L50	40	–	LC1 D50A●●
18.5	25	ATV 61WD18N4 ATV 61WD18N4C	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61WD22N4 ATV 61WD22N4C	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61WD30N4 ATV 61WD30N4C	NS80HMA80	80	480	LC1 D65A●●
37	50	ATV 61WD37N4 ATV 61WD37N4C	NS80HMA80	80	480	LC1 D80●●
45	60	ATV 61WD45N4 ATV 61WD45N4C	NSX100●MA100	100	600	LC1 D80●●
55	75	ATV 61WD55N4 ATV 61WD55N4C	NSX160●MA150	150	1350	LC1 D115●●
75	100	ATV 61WD75N4 ATV 61WD75N4C	NSX160●MA150	150	1350	LC1 D150●●
90	125	ATV 61WD90N4 ATV 61WD90N4C	NSX250●MA220	220	1980	LC1 F185●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors

The HP values given are NEC-compliant (National Electrical Code).

(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).

Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	Icu (kA) for 400 V					
	B	F	N	H	S	L
GV2 L07...L14	130	–	–	–	–	–
GV2 L16	50	–	–	–	–	–
GV3 L32...L65	–	–	–	–	–	–
NS80HMA	70	–	–	–	–	–
NSX100●MA...NSX250●MA	–	25	36	50	70	100

(3) Composition of contactors:

LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F185: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

Replace ●● with the control circuit voltage reference indicated in the table below.

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



NSX100●MA150  
+  
LC1 D115●●  
+  
ATV 61HD45N4

Motor starters for IP 20 drives						
Motor Power (1)		Drive Reference	Circuit-breaker Reference (2)		Line contactor Reference (4) (5)	
kW	HP		Rating A	Irm A		
Three-phase supply voltage: 440...480 V 50/60 Hz. Type 2 coordination						
0.75	1	ATV 61H075N4	GV2 L08	4	–	LC1 D25●●
1.5	2	ATV 61HU15N4	GV2 L10	6.3	–	LC1 D25●●
2.2	3	ATV 61HU22N4	GV2 L14	10	–	LC1 D25●●
3	–	ATV 61HU30N4	GV2 L14	10	–	LC1 D25●●
4	5	ATV 61HU40N4	GV2 L16	14	–	LC1 D25●●
5.5	7.5	ATV 61HU55N4	GV2 L20	18	–	LC1 D25●●
7.5	10	ATV 61HU75N4	GV3 L25	25	–	LC1 D32●●
11	15	ATV 61HD11N4	GV3 L32	32	–	LC1 D40A●●
15	20	ATV 61HD15N4	GV3 L50	50	–	LC1 D50A●●
18.5	25	ATV 61HD18N4	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61HD22N4	GV3 L50	50	–	LC1 D65A●●
30	40	ATV 61HD30N4	GV3 L65	65	–	LC1 D65A●●
37	50	ATV 61HD37N4	NS80HMA80	80	480	LC1 D80●●
45	60	ATV 61HD45N4	NSX100●MA100	100	600	LC1 D115●●
55	75	ATV 61HD55N4	NSX160●MA150	150	1350	LC1 D115●●
75	100	ATV 61HD75N4	NSX250●MA220	220	1980	LC1 F185●●
90	125	ATV 61HD90N4	NSX250●MA220	220	1980	LC1 F185●●
110	150	ATV 61HC11N4	NSX250●MA220	220	1980	LC1 F185●●
132	200	ATV 61HC13N4	NSX250●MA220	220	1980	LC1 F265●●
160	250	ATV 61HC16N4	NSX400● Micrologic 1.3M	320	1920	LC1 F265●●
200	300	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
220	350	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
250	400	ATV 61HC25N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
280	450	ATV 61HC31N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
315	500	ATV 61HC31N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
355	–	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
400	600	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F780●●
500	700	ATV 61HC50N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F780●●
560	800	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F780●●
630	900	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F780●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors  
The HP values given are NEC-compliant (National Electrical Code).  
(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).  
Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	Icu (kA) for 440 V	Icu (kA)					
		B	F	N	H	S	L
GV2 L08...GV2 L14 (3)	130	–	–	–	–	–	–
GV2 L14 (3)...L20	20	–	–	–	–	–	–
GV3 L25...L65	50	–	–	–	–	–	–
NS80HMA	65	–	–	–	–	–	–
NSX100●MA...NSX250●MA	–	20	35	50	65	90	130
NSX400●MA...NSX630●MA	–	–	30	42	65	90	130
NS800L Micrologic 2 or 5 NS1000L Micrologic 2 or 5	–	–	–	–	–	–	130

(3) GV2 L14: Icu of 130 when combined with an ATV 61HU22N4, Icu of 20 when combined with an ATV 61HU30N4.  
(4) Composition of contactors:  
LC1 D25 to LC1 D115: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.  
LC1 F185 to LC1 F780: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.  
(5) Replace ●● with the control circuit voltage reference given in the table below:

LC1 D25...D115	Volts ~	24	48	110	220	230	240
		50 Hz	B5	E5	F5	M5	P5
LC1 F185	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F265	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7
LC1 F400...F630	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7
LC1 F780	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX160●MA150  
+  
LC1 D115●●  
+  
ATV 61HD55N4

### Motor starters for IP 20 drives

Motor Power (1)		Drive Reference	Circuit-breaker Reference (2)	Rating I <sub>rm</sub>		Line contactor Reference (4) (5)
kW	HP			A	A	
<b>Three-phase supply voltage: 440...480 V 50/60 Hz. Type 1 coordination</b>						
0.75	1	ATV 61H075N4	GV2 L08	4	–	LC1 D09●●
1.5	2	ATV 61HU15N4	GV2 L10	6.3	–	LC1 D09●●
2.2	3	ATV 61HU22N4	GV2 L14	10	–	LC1 D09●●
3	–	ATV 61HU30N4	GV2 L14	10	–	LC1 D09●●
4	5	ATV 61HU40N4	GV2 L16	14	–	LC1 D09●●
5.5	7.5	ATV 61HU55N4	GV2 L20	18	–	LC1 D09●●
7.5	10	ATV 61HU75N4	GV3 L25	25	–	LC1 D25●●
11	15	ATV 61HD11N4	GV3 L32	32	–	LC1 D32●●
15	20	ATV 61HD15N4	GV3 L50	50	–	LC1 D40A●●
18.5	25	ATV 61HD18N4	GV3 L50	50	–	LC1 D40A●●
22	30	ATV 61HD22N4	GV3 L50	50	–	LC1 D50A●●
30	40	ATV 61HD30N4	GV3 L65	65	–	LC1 D65A●●
37	50	ATV 61HD37N4	NS80HMA80	80	480	LC1 D80●●
45	60	ATV 61HD45N4	NSX100●MA100	100	600	LC1 D95●●
55	75	ATV 61HD55N4	NSX160●MA150	150	1350	LC1 D115●●
75	100	ATV 61HD75N4	NSX250●MA220	220	1980	LC1 D115●●
90	125	ATV 61HD90N4	NSX250●MA220	220	1980	LC1 D150●●
110	150	ATV 61HC11N4	NSX250●MA220	220	1980	LC1 D150●●
132	200	ATV 61HC13N4	NSX250●MA220	220	1980	LC1 F225●●
160	250	ATV 61HC16N4	NSX400● Micrologic 1.3M	320	1920	LC1 F225●●
200	300	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F330●●
220	350	ATV 61HC22N4	NSX630● Micrologic 1.3M	500	3000	LC1 F330●●
250	400	ATV 61HC25N4	NSX630● Micrologic 1.3M	500	3000	LC1 F400●●
280	450	ATV 61HC31N4	NSX630● Micrologic 1.3M	500	3000	LC1 F500●●
315	500	ATV 61HC31N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F500●●
355	–	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
400	600	ATV 61HC40N4	NS800L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
500	700	ATV 61HC50N4	NS1000L Micrologic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
560	800	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F630●●
630	900	ATV 61HC63N4	NS1000L Micrologic 2 or 5 (LR OFF)	1000	2000	LC1 F630●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors

The HP values given are NEC-compliant (National Electrical Code).

(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).

Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 440 V						
	B	F	N	H	S	L	
GV2 L08...L14 (3)	130	–	–	–	–	–	
GV2 L14 (3)...L20	20	–	–	–	–	–	
GV3 L25...L65	50	–	–	–	–	–	
NS80HMA	65	–	–	–	–	–	
NSX100●MA...NSX250●MA	–	20	35	50	65	90	
NSX400●, NSX630●	–	–	30	42	65	90	
NS800L Micrologic 2 or 5	–	–	–	–	–	130	
NS1000L Micrologic 2 or 5	–	–	–	–	–	130	

(3) GV2 L14: I<sub>cu</sub> of 130 when combined with an ATV 61HU22N4, I<sub>cu</sub> of 20 when combined with an ATV 61HU30N4.

(4) Composition of contactors:

LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F225 to LC1 F630: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(5) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F265, LC1 F330	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7
LC1 F400...F630	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX100●MA150  
+  
LC1 D115●●  
+  
ATV 61WD55N4

**Motor starters for IP 54 drives**

Motor Power (1)		Drive Reference	Circuit-breaker Reference (2)	Rating A	I <sub>rm</sub> A	Line contactor Reference (4) (5)
kW	HP					
<b>Three-phase supply voltage: 440...480 V 50/60 Hz. Type 2 coordination</b>						
0.75	1	ATV 61W075N4 ATV 61W075N4C	GV2 L07	2.5	–	LC1 D09●●
1.5	2	ATV 61WU15N4 ATV 61WU15N4C	GV2 L08	4	–	LC1 D09●●
2.2	3	ATV 61WU22N4 ATV 61WU22N4C	GV2 L10	6.3	–	LC1 D09●●
3	–	ATV 61WU30N4 ATV 61WU30N4C	GV2 L10	6.3	–	LC1 D09●●
4	5	ATV 61WU40N4 ATV 61WU40N4C	GV2 L14	10	–	LC1 D25●●
5.5	7.5	ATV 61WU55N4 ATV 61WU55N4C	GV2 L14	10	–	LC1 D25●●
7.5	10	ATV 61WU75N4 ATV 61WU75N4C	GV3 L32	32	–	LC1 D40A●●
11	15	ATV 61WD11N4 ATV 61WD11N4C	GV3 L40	40	–	LC1 D40A●●
15	20	ATV 61WD15N4 ATV 61WD15N4C	GV3 L50	50	–	LC1 D50A●●
18.5	25	ATV 61WD18N4 ATV 61WD18N4C	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61WD22N4 ATV 61WD22N4C	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61WD30N4 ATV 61WD30N4C	NS80HMA50	50	300	LC1 D80●●
37	50	ATV 61WD37N4 ATV 61WD37N4C	NS80HMA80	80	480	LC1 D80●●
45	60	ATV 61WD45N4 ATV 61WD45N4C	NS80HMA80	80	480	LC1 D80●●
55	75	ATV 61WD55N4 ATV 61WD55N4C	NSX100●MA100	100	600	LC1 D115●●
75	100	ATV 61WD75N4 ATV 61WD75N4C	NSX160●MA150	150	1350	LC1 D150●●
90	125	ATV 61WD90N4 ATV 61WD90N4C	NSX250●MA220	220	1980	LC1 F185●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors  
The HP values given are NEC-compliant (National Electrical Code).  
(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).  
Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 440 V					
	B	F	N	H	S	L
GV2 L07...L14 (3)	130	–	–	–	–	–
GV2 L14 (3)	50	–	–	–	–	–
GV3 L32...L65	–	–	–	–	–	–
NS80HMA	70	–	–	–	–	–
NSX100●MA...NSX250●MA	–	20	35	50	65	90

(3) GV2 L14: I<sub>cu</sub> of 130 when combined with an ATV 61WU40N4, I<sub>cu</sub> of 50 when combined with an ATV 61WU55N4.  
(4) Composition of contactors:  
LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.  
LC1 F185: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.  
(5) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NS80HMA80  
+  
LC1 D80●●  
+  
ATV 61WD45N4

### Motor starters for IP 54 drives

Motor		Drive	Circuit-breaker		Line contactor	
Power (1)		Reference	Reference (2)	Rating	I <sub>rm</sub>	Reference (4) (5)
kW	HP			A	A	
<b>Three-phase supply voltage: 440...480 V 50/60 Hz. Type 1 coordination</b>						
0.75	1	ATV 61W075N4 ATV 61W075N4C	GV2 L07	2.5	–	LC1 D09●●
1.5	2	ATV 61WU15N4 ATV 61WU15N4C	GV2 L08	4	–	LC1 D09●●
2.2	3	ATV 61WU22N4 ATV 61WU22N4C	GV2 L10	6.3	–	LC1 D09●●
3	–	ATV 61WU30N4 ATV 61WU30N4C	GV2 L10	6.3	–	LC1 D09●●
4	5	ATV 61WU40N4 ATV 61WU40N4C	GV2 L14	10	–	LC1 D18●●
5.5	7.5	ATV 61WU55N4 ATV 61WU55N4C	GV2 L14	10	–	LC1 D18●●
7.5	10	ATV 61WU75N4 ATV 61WU75N4C	GV3 L32	32	–	LC1 D25●●
11	15	ATV 61WD11N4 ATV 61WD11N4C	GV3 L40	40	–	LC1 D40A●●
15	20	ATV 61WD15N4 ATV 61WD15N4C	GV3 L50	50	–	LC1 D50A●●
18.5	25	ATV 61WD18N4 ATV 61WD18N4C	GV3 L50	50	–	LC1 D50A●●
22	30	ATV 61WD22N4 ATV 61WD22N4C	GV3 L65	65	–	LC1 D65A●●
30	40	ATV 61WD30N4 ATV 61WD30N4C	NS80HMA50	50	300	LC1 D65A●●
37	50	ATV 61WD37N4 ATV 61WD37N4C	NS80HMA80	80	480	LC1 D65A●●
45	60	ATV 61WD45N4 ATV 61WD45N4C	NS80HMA80	80	480	LC1 D80●●
55	75	ATV 61WD55N4 ATV 61WD55N4C	NSX100●MA100	100	600	LC1 D115●●
75	100	ATV 61WD75N4 ATV 61WD75N4C	NSX160●MA150	150	1350	LC1 D150●●
90	125	ATV 61WD90N4 ATV 61WD90N4C	NSX250●MA220	220	1980	LC1 F185●●

(1) Standard power ratings for 400 V 50/60 Hz 4-pole motors

The HP values given are NEC-compliant (National Electrical Code).

(2) For references to be completed, replace the dot with the letter corresponding to the circuit-breaker breaking performance (B, F, N, H, S or L).

Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 440 V	I <sub>cu</sub> (kA) for 440 V					
		B	F	N	H	S	L
GV2 L07...L14 (3)	130	–	–	–	–	–	–
GV2 L14 (3)	50	–	–	–	–	–	–
GV3 L32...L65							
NS80HMA	70	–	–	–	–	–	–
NSX100●MA...NSX250●MA	–	20	35	50	65	90	130

(3) GV2 L14: I<sub>cu</sub> of 130 when combined with an ATV 61WU40N4(C) and I<sub>cu</sub> of 50 when combined with an ATV 61WU55N4(C).

(4) Composition of contactors:

LC1 D09 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F185: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(5) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 D09...D150	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F185	50 Hz (LX1 coil)	B5	E5	F5	M5	P5	U5
	60 Hz (LX1 coil)	–	E6	F6	M6	–	U6
	40...400 Hz (LX9 coil)	–	E7	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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GV2 L20  
+  
LC1 D40A●●  
+  
ATV 61HD11Y

**Motor starters for IP 20 drives**

Motor Power (1) kW	Drive Reference	Circuit-breaker Reference (2)	Rating A	I <sub>rm</sub> A	Line contactor Reference (3) (4)
<b>690 V 50 Hz three-phase supply voltage. Type 2 coordination</b>					
3	ATV 61HU30Y	GV2 L10	6.3	–	LC1 D25●●
4	ATV 61HU40Y	GV2 L14	10	–	LC1 D25●●
5.5	ATV 61HU55Y	GV2 L14	10	–	LC1 D25●●
7.5	ATV 61HU75Y	GV2 L16	14	–	LC1 D25●●
11	ATV 61HD11Y	GV2 L20	18	–	LC1 D40A●●
15	ATV 61HD15Y	GV2 L22	25	–	LC1 D40A●●
18.5	ATV 61HD18Y	GV3 L25	25	–	LC1 D40A●●
22	ATV 61HD22Y	GV3 L32	32	–	LC1 D65A●●
30	ATV 61HD30Y	GV3 L40	40	–	LC1 D80●●
37	ATV 61HD37Y	GV3 L50	50	–	LC1 D80●●
45	ATV 61HD45Y	GV3 L65	65	–	LC1 D115●●
55	ATV 61HD55Y	NS100LMA100	100	1100	LC1 D115●●
75	ATV 61HD75Y	NS100LMA100	100	1100	LC1 D115●●
90	ATV 61HD90Y	NS400LMA320	320	2880	LC1 F265●●
110	ATV 61HC11Y	NS400LMA320	320	2880	LC1 F265●●
132	ATV 61HC13Y	NS400LMA320	320	2880	LC1 F265●●
160	ATV 61HC16Y	NS400LMA320	320	2880	LC1 F265●●
200	ATV 61HC20Y	NS400LMA320	320	2880	LC1 F330●●
250	ATV 61HC25Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	2880	LC1 F630●●
315	ATV 61HC31Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	4500	LC1 F630●●
400	ATV 61HC40Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	4500	LC1 F630●●
500	ATV 61HC50Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	4500	LC1 F630●●
630	ATV 61HC63Y	NS800LB Micrologic 2 or 5 (LR OFF)	800	5670	LC1 F780●●

(1) Standard power ratings for 690 V 50 Hz 4-pole motors  
(2) Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 690 V
GV2 L10...L22	4
GV3 L25, GV3 L32	
GV3 L40...L65	5
NS●●LMA	75
NS630bLB Micrologic 2 or 5	
NS800LB Micrologic 2 or 5	

(3) Composition of contactors:  
LC1 D25 to LC1 D115: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.  
LC1 F265 to LC1 F780: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(4) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 D25...D115	50 Hz	B5	E5	F5	M5	P5	U5
	60 Hz	B6	E6	F6	M6	–	U6
	50/60 Hz	B7	E7	F7	M7	P7	U7
LC1 F265, LC1 F330	40...400 Hz (LX1 coil)	B7	E7	F7	M7	P7	U7
LC1 F630	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7
LC1 F780	40...400 Hz (LX1 coil)	–	–	F7	M7	P7	U7

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.



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NSX630LMA500  
+  
LC1 F400●●  
+  
ATV 61HC25Y

**Motor starters for IP 20 drives**

Motor Power (1) kW	Drive Reference	Circuit-breaker		Line contactor		
		Reference (2)	Rating A	I <sub>rm</sub> A	Reference (3) (4)	
<b>690 V 50 Hz three-phase supply voltage. Type 1 coordination</b>						
250	ATV 61HC25Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	–	LC1 F400●●	
315	ATV 61HC31Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	–	LC1 F500●●	
400	ATV 61HC40Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	–	LC1 F630●●	
500	ATV 61HC50Y	NS630bLB Micrologic 2 or 5 (LR OFF)	630	–	LC1 BL33●●	
630	ATV 61HC63Y	NS800LB Micrologic 2 or 5 (LR OFF)	800	–	LC1 BL34●●	

(1) Standard power ratings for 690 V 50 Hz 4-pole motors  
(2) Breaking capacity of circuit-breakers according to standard IEC 60947-2:

Circuit-breaker	I <sub>cu</sub> (kA) for 690 V
NS630bLB Micrologic 2 or 5 NS800LB Micrologic 2 or 5	75

(3) Composition of contactors:  
LC1 F400 to LC1 F630, LC1 BL3●: 3 poles. To add auxiliary contacts or other accessories, please refer to the "Motor-starter solutions - Control and protection components" catalogue.

(4) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	24	48	110	220	230	240
LC1 F●●●	40...400 Hz (LX1 coil)	–	E7	F7	M7	P7	U7
LC1 BL●●	50...400 Hz (WB1 coil)	–	–	F	M	P	U

For other voltages available between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.