

Variable speed drives for asynchronous motors

Altivar 21

Motor starters: supply voltage 380...415 V



NS80HMA50
+
LC1 D32●●
+
ATV 21HD22N4

Motor starters for UL Type 1/IP 20 drives (continued)

Motor Power (1)	Drive Reference	Circuit breaker Reference (2)	Line contactor	
			Rating	Im
kW	HP	Reference (2)	A	A
Three-phase supply voltage: 380...415 V 50/60 Hz. Type 2 coordination				
0.75	1	ATV 21H075N4 GV2 L07	2.5	—
1.5	2	ATV 21HU15N4 GV2 L08	4	—
2.2	3	ATV 21HU22N4 GV2 L10	6.3	—
3	—	ATV 21HU30N4 GV2 L10	6.3	—
4	5	ATV 21HU40N4 GV2 L14	10	—
5.5	7.5	ATV 21HU55N4 GV2 L16	14	—
7.5	10	ATV 21HU75N4 GV2 L20	18	—
11	15	ATV 21HD11N4 GV2 L22	25	—
15	20	ATV 21HD15N4 GV2 L32	32	—
18.5	25	ATV 21HD18N4 NS80HMA50	50	300
22	30	ATV 21HD22N4 NS80HMA50	50	300
30	40	ATV 21HD30N4 NS80HMA80	80	480
37	50	ATV 21HD37N4 NS80HMA80	80	480
45	60	ATV 21HD45N4 NS100●MA100	100	600
55	75	ATV 21HD55N4 NS100●MA150	150	1350
75	100	ATV 21HD75N4 NS100●MA220	220	1980
Three-phase supply voltage: 380...415 V 50/60 Hz. Type 1 coordination				
0.75	1	ATV 21H075N4 GV2 LE07	2.5	—
1.5	2	ATV 21HU15N4 GV2 LE08	4	—
2.2	3	ATV 21HU22N4 GV2 LE10	6.3	—
3	—	ATV 21HU30N4 GV2 LE10	6.3	—
4	5	ATV 21HU40N4 GV2 LE14	10	—
5.5	7.5	ATV 21HU55N4 GV2 LE16	14	—
7.5	10	ATV 21HU75N4 GV2 LE20	18	—
11	15	ATV 21HD11N4 GV2 LE22	25	—
15	20	ATV 21HD15N4 GV2 LE32	32	—
18.5	25	ATV 21HD18N4 NS80HMA50	50	300
22	30	ATV 21HD22N4 NS80HMA50	50	300
30	40	ATV 21HD30N4 NS80HMA80	80	480
37	50	ATV 21HD37N4 NS80HMA80	80	480
45	60	ATV 21HD45N4 NS100●MA100	100	600
55	75	ATV 21HD55N4 NS100●MA150	150	1350
75	100	ATV 21HD75N4 NS100●MA220	220	1980

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

The values expressed in HP comply with the NEC (National Electrical Code).

(2) NS80HMA●●, NS100●MA●●●: Products sold under the Merlin Gerin brand.

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

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

Circuit breaker	Icu (kA) for 400 V	N H L		
GV2 L07...L14	100	—	—	—
GV2 L16...L32	50	—	—	—
GV2 LE07...LE22	15	—	—	—
GV2 LE32	10	—	—	—
NS80HMA	70	—	—	—
NS100●MA	—	25	70	150

(3) Composition of contactors:

LC1 K06, LC1 D09 to LC1 D115: 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 K06	50/60 Hz	B7	E7	F7	M7	P7	U7
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	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 consult your Regional Sales Office.