

Variable speed drives for asynchronous motors

Altivar 71

Motor starters: supply voltage 380...415 V

533345



105517_18



533366



NS160HMA●●●

+ LC1 D115●●

+ ATN 71HD45N4

3-phase supply voltage 380...415 V 50/60 Hz

Motor		Drive	Circuit-breaker			Line contactor
Power (1)		Reference	Reference (2)	Rating	Im	Reference (3) (4)
kW	HP			A	A	
Type 2 coordination						
0.75	1	ATV 71H075N4	GV2 L08	4	–	LC1 D18●●
1.5	2	ATV 71HU15N4	GV2 L10	6.3	–	LC1 D18●●
2.2	3	ATV 71HU22N4	GV2 L14	10	–	LC1 D18●●
3	–	ATV 71HU30N4	GV2 L16	14	–	LC1 D18●●
4	5	ATV 71HU40N4	GV2 L16	14	–	LC1 D18●●
5.5	7.5	ATV 71HU55N4	GV2 L22	25	–	LC1 D25●●
7.5	10	ATV 71HU75N4	NS80HMA50	50	300	LC1 D40●●
11	15	ATV 71HD11N4	NS80HMA50	50	300	LC1 D40●●
15	20	ATV 71HD15N4	NS80HMA50	50	300	LC1 D50●●
18.5	25	ATV 71HD18N4	NS80HMA50	50	300	LC1 D50●●
22	30	ATV 71HD22N4	NS80HMA80	80	480	LC1 D65●●
30	40	ATV 71HD30N4	NS80HMA80	80	480	LC1 D65●●
37	50	ATV 71HD37N4	NS100●MA100	100	800	LC1 D80●●
45	60	ATV 71HD45N4	NS160●MA150	150	1350	LC1 D115●●
55	75	ATV 71HD55N4	NS160●MA150	150	1350	LC1 D115●●
75	100	ATV 71HD75N4	NS250●MA150	150	1350	LC1 D150●●
90	125	ATV 71HD90N4	NS250●MA220	220	1980	LC1 F185●●
110	150	ATV 71HC11N4	NS250●MA220	220	1980	LC1 F185●●
132	200	ATV 71HC13N4	NS400●STR43MEF	320	2880	LC1 F265●●
160	250	ATV 71HC16N4	NS400●STR43MEF	320	2880	LC1 F265●●
200	300	ATV 71HC20N4	NS400●STR43MEF	320	2880	LC1 F400●●
220	350	ATV 71HC25N4	NS630●STR43MEF	500	4500	LC1 F400●●
250	400	ATV 71HC25N4	NS630●STR43MEF	500	4500	LC1 F500●●
280	450	ATV 71HC28N4	NS630●STR43MEF	500	4500	LC1 F500●●
315	500	ATV 71HC31N4	NS630●STR43MEF	500	4500	LC1 F500●●
Type 1 coordination						
355	–	ATV 71HC40N4	NS800 MicroLogic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
400	600	ATV 71HC40N4	NS800 MicroLogic 2 or 5 (LR OFF)	800	1600	LC1 F630●●
500	800	ATV 71HC50N4	NS1000 MicroLogic 2 or 5 (LR OFF)	1000	2000	LC1 F800●●

(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, NS●●●●, NS800, NS1000: products sold under the Merlin Gerin brand.
For references to be completed, replace the dot with the letter corresponding to the circuit-breaker performance (N, H, L).

Breaking capacity of circuit-breakers according to standard IEC60947-2:

Circuit-breaker	Icu (kA) for 400 V		
	N	H	L
GV2 L08...L14	100	–	–
GV2 L16...L22	50	–	–
NS80HMA	70	–	–
NS100●MA, NS160●MA, NS250●MA	–	36	70
NS400●, NS630●, NS800, NS1000	–	50	70

(3) Composition of contactors:

LC1 D18 to LC1 D150: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact.

LC1 F●●●: 3 poles. To add auxiliary contacts or other accessories, please consult our specialist catalogue "Motor-starter solutions. Control and protection components".

(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
LC1 F115...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
LC1 F800	40...400 Hz (LX1 coil)	–	–	FE7	P7	P7	P7

For other voltages available between 24 V and 660 V, or a DC control circuit, please consult your Regional Sales Office.