

Variable speed drives for asynchronous motors

Altivar 31 Motor starters

Applications

The combinations listed below can be used to assemble a complete motor starter comprising a circuit-breaker, a contactor and an Altivar 31 variable speed drive. The circuit-breaker provides protection against accidental short-circuits, isolation and padlocking, if required.

The contactor controls and manages any safety features and isolates the motor on stopping.

The Altivar 31 drive is protected electronically against short-circuits between phases and between phase and earth; it therefore ensures continuity of service and thermal protection of the motor.

Motor starter for ATV 31H drive

Variable speed drive Reference	Standard power rating of 4-pole motors 50/60 Hz (1)		Circuit-breaker (2)		Max. prosp. line Isc	Contactor (3) Add the voltage reference to the basic reference to obtain the full reference (4)
	kW	HP	Reference	Rating		
				A	kA	
Single phase supply voltage: 200...240 V						
ATV 31H018M2	0.18	0.25	GV2 L08	4	1	LC1 K0610●●
ATV 31H037M2	0.37	0.5	GV2 L10	6.3	1	LC1 K0610●●
ATV 31H055M2	0.55	0.75	GV2 L14	10	1	LC1 K0610●●
ATV 31H075M2	0.75	1	GV2 L14	10	1	LC1 K0610●●
ATV 31HU11M2	1.1	1.5	GV2 L16	14	1	LC1 K0610●●
ATV 31HU15M2	1.5	2	GV2 L20	18	1	LC1 K0610●●
ATV 31HU22M2	2.2	3	GV2 L22	25	1	LC1 D09●●
Three phase supply voltage: 200...240 V						
ATV 31H018M3X	0.18	0.25	GV2 L07	2.5	5	LC1 K0610●●
ATV 31H037M3X	0.37	0.5	GV2 L08	4	5	LC1 K0610●●
ATV 31H055M3X	0.55	0.75	GV2 L10	6.3	5	LC1 K0610●●
ATV 31H075M3X	0.75	1	GV2 L14	10	5	LC1 K0610●●
ATV 31HU11M3X	1.1	1.5	GV2 L14	10	5	LC1 K0610●●
ATV 31HU15M3X	1.5	2	GV2 L16	14	5	LC1 K0610●●
ATV 31HU22M3X	2.2	3	GV2 L20	18	5	LC1 K0610●●
ATV 31HU30M3X	3	–	GV2 L22	25	5	LC1 D09●●
ATV 31HU40M3X	4	5	GV2 L22	25	5	LC1 D09●●
ATV 31HU55M3X	5.5	7.5	NS80HMA	50	22	LC1 D32●●
ATV 31HU75M3X	7.5	10	NS80HMA	50	22	LC1 D32●●
ATV 31HD11M3X	11	15	NS80HMA	80	22	LC1 D40●●
ATV 31HD15M3X	15	20	NS100HMA	100	22	LC1 D40●●
Three phase supply voltage: 380...500 V						
ATV 31H037N4	0.37	0.5	GV2 L07	2.5	5	LC1 K0610●●
ATV 31H055N4	0.55	0.75	GV2 L08	4	5	LC1 K0610●●
ATV 31H075N4	0.75	1	GV2 L08	4	5	LC1 K0610●●
ATV 31HU11N4	1.1	1.5	GV2 L10	6.3	5	LC1 K0610●●
ATV 31HU15N4	1.5	2	GV2 L14	10	5	LC1 K0610●●
ATV 31HU22N4	2.2	3	GV2 L14	10	5	LC1 K0610●●
ATV 31HU30N4	3	–	GV2 L16	14	5	LC1 K0610●●
ATV 31HU40N4	4	5	GV2 L16	14	5	LC1 K0610●●
ATV 31HU55N4	5.5	7.5	GV2 L22	25	22	LC1 D09●●
ATV 31HU75N4	7.5	10	GV2 L32	32	22	LC1 D18●●
ATV 31HD11N4	11	15	NS80HMA	50	22	LC1 D32●●
ATV 31HD15N4	15	20	NS80HMA	50	22	LC1 D32●●

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

(2) NS●●HMA: Product sold under the Merlin Gerin brand

(3) Composition of contactors:

LC1-K06: 3 poles + 1 "N/O" auxiliary contact

LC1-D09/D18/D32/D40: 3 poles + 1 "N/O" auxiliary contact and 1 "N/C" auxiliary contact

(4) Usual control circuit voltages

AC control circuit

	Volts ~	24	48	110	220	230	240
LC1-K	50/60 Hz	B7	E7	F7	M7	P7	U7
		24	48	110	220/230	230	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 between 24 V and 660 V, or a DC control circuit, please consult your Regional Sales Office.

