

Variable speed drives for asynchronous motors

Altivar 31
Motor starters

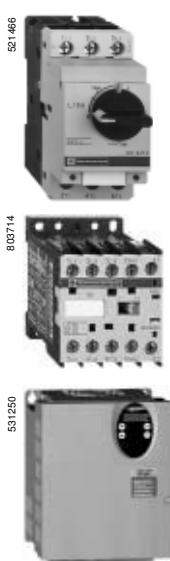
Applications

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



GV2 L
+
LC1 K
+
ATV 31H••••••

Variable speed drive Reference	Standard power rating of 4-pole motors 50/60 Hz (1)	Circuit-breaker (2)		Max. prosp. line lsc	Contactor (3) Add the voltage reference to the basic reference to obtain the full reference (4)	
		Reference	Rating			
		kW	HP	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
	Volts ~	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.