Variable speed drives
Altivar 312
Motor starters

PF539851

PF539852

PF539850

GV2 L14
+
LC1 D09
+
ATV 312H075M2

Applications

The combinations listed below can be used to assemble a complete motor starter comprising a circuit-breaker, a contactor and an Altivar 312 variable speed drive.
The circuit-breaker provides protection against accidental short-circuits, disconnection and, if necessary, isolation.
The contactor controls and manages any safety features and isolates the motor on stopping.
The Altivar 312 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 starters

Standard power rating of 50/60 Hz 4-pole motors *(1)*		Drive	Circuit-breaker		Contactor *(2)* Add voltage reference to basic reference to obtain full reference *(3)*
		Reference	Reference	Rating	
kW	*HP*			A	
Single-phase supply voltage: 200…240 V					
0.18	*0.25*	**ATV 312H018M2**	**GV2 L08**	4	**LC1 D09●●**
0.37	*0.5*	**ATV 312H037M2**	**GV2 L10**	6.3	**LC1 D09●●**
0.55	*0.75*	**ATV 312H055M2**	**GV2 L14**	10	**LC1 D09●●**
0.75	*1*	**ATV 312H075M2**	**GV2 L14**	10	**LC1 D09●●**
1.1	*1.5*	**ATV 312HU11M2**	**GV2 L16**	14	**LC1 D09●●**
1.5	*2*	**ATV 312HU15M2**	**GV2 L20**	18	**LC1 D09●●**
2.2	*3*	**ATV 312HU22M2**	**GV2 L22**	25	**LC1 D09●●**
Three-phase supply voltage: 200…240 V					
0.18	*0.25*	**ATV 312H018M3**	**GV2 L07**	2.5	**LC1 D09●●**
0.37	*0.5*	**ATV 312H037M3**	**GV2 L08**	4	**LC1 D09●●**
0.55	*0.75*	**ATV 312H055M3**	**GV2 L10**	6.3	**LC1 D09●●**
0.75	*1*	**ATV 312H075M3**	**GV2 L14**	10	**LC1 D09●●**
1.1	*1.5*	**ATV 312HU11M3**	**GV2 L14**	10	**LC1 D09●●**
1.5	*2*	**ATV 312HU15M3**	**GV2 L16**	14	**LC1 D09●●**
2.2	*3*	**ATV 312HU22M3**	**GV2 L20**	18	**LC1 D09●●**
3	–	**ATV 312HU30M3**	**GV2 L22**	25	**LC1 D09●●**
4	*5*	**ATV 312HU40M3**	**GV2 L22**	25	**LC1 D09●●**
5.5	*7.5*	**ATV 312HU55M3**	**GV3 L40**	40	**LC1 D32●●**
7.5	*10*	**ATV 312HU75M3**	**GV3 L50**	50	**LC1 D32●●**
11	*15*	**ATV 312HD11M3**	**GV3 L65**	65	**LC1 D50●●**
15	*20*	**ATV 312HD15M3**	**NS100HMA**	100	**LC1 D80●●**
Three-phase supply voltage: 380…500 V					
0.37	*0.5*	**ATV 312H037N4**	**GV2 L07**	2.5	**LC1 D09●●**
0.55	*0.75*	**ATV 312H055N4**	**GV2 L08**	4	**LC1 D09●●**
0.75	*1*	**ATV 312H075N4**	**GV2 L08**	4	**LC1 D09●●**
1.1	*1.5*	**ATV 312HU11N4**	**GV2 L10**	6.3	**LC1 D09●●**
1.5	*2*	**ATV 312HU15N4**	**GV2 L14**	10	**LC1 D09●●**
2.2	*3*	**ATV 312HU22N4**	**GV2 L14**	10	**LC1 D09●●**
3	–	**ATV 312HU30N4**	**GV2 L16**	14	**LC1 D09●●**
4	*5*	**ATV 312HU40N4**	**GV2 L16**	14	**LC1 D09●●**
5.5	*7.5*	**ATV 312HU55N4**	**GV2 L22**	25	**LC1 D09●●**
7.5	*10*	**ATV 312HU75N4**	**GV2 L32**	32	**LC1 D18●●**
11	*15*	**ATV 312HD11N4**	**GV3 L40**	40	**LC1 D25●●**
15	*20*	**ATV 312HD15N4**	**GV3 L50**	50	**LC1 D32●●**

(1) The values expressed in HP conform to the NEC (National Electrical Code).
(2) Composition of contactors LC1-D09/D18/D25/D32/D50/D80:
3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact.
(3) Replace ●● with the control circuit voltage reference indicated in the table below:

AC control circuit

	Volts ∿	24	48	110	220	230	230/240
LC1-D	**50/60 Hz**	**B7**	**E7**	**F7**	**M7**	**P7**	**U7**

For other voltages between 24 V and 660 V, or a DC control circuit, please refer to the “Motor starter solutions - Control and protection components” catalogue.

PF539853

PF539854

PF539855

GV3 L40
+
LC1 D25
+
ATV 312HD15S6

Motor starters (continued)

Standard power rating of 50/60 Hz 4-pole motors *(1)*		Drive	Circuit-breaker		Contactor *(2)* Add voltage reference to basic reference to obtain full reference *(3)*
		Reference	Reference	Rating	
kW	*HP*			A	
Three-phase supply voltage: 525…600 V					
0.75	*1*	**ATV 312H075S6**	**GV2 L08**	4	**LC1 D09●●**
1.5	*2*	**ATV 312HU15S6**	**GV2 L10**	6.3	**LC1 D09●●**
2.2	*3*	**ATV 312HU22S6**	**GV2 L14**	10	**LC1 D09●●**
4	*5*	**ATV 312HU40S6**	**GV2 L16**	14	**LC1 D09●●**
5.5	*7.5*	**ATV 312HU55S6**	**GV2 L20**	18	**LC1 D09●●**
7.5	*10*	**ATV 312HU75S6**	**GV2 L22**	25	**LC1 D09●●**
11	*15*	**ATV 312HD11S6**	**GV2 L32**	32	**LC1 D18●●**
15	*20*	**ATV 312HD15S6**	**GV3 L40**	40	**LC1 D25●●**

(1) The values expressed in HP conform to the NEC (National Electrical Code).
(2) Composition of contactors LC1-D09/D18/D25:
3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact.
(3) Replace ●● with the control circuit voltage reference indicated in the table below:

AC control circuit							
	Volts ∿	24	48	110	220	230	230/240
LC1-D	50/60 Hz	B7	E7	F7	M7	P7	U7

For other voltages between 24 V and 660 V, or a DC control circuit, please refer to the “Motor starter solutions - Control and protection components” catalogue.