

4.0 – Compressor Features and Accessories

4.1 06D Compressor Motor Protection

The 06D compressors, when purchased with overloads installed in the compressor terminal box, are protected from motor overcurrent and overtemperature. The motor is completely protected against locked rotor, running overload, primary and secondary single phasing, and loss of refrigerant conditions. These compressors also comply with UL, CSA, and NEC (National Electrical Code) requirements for inherent motor protection.

Primary Motor Protection

Texas Instruments supplementary overloads are normally supplied with 06D compressors. These relays trip at or below the maximum continuous current (MCC) listed in the electrical data tables. These current sensitive, pilot duty relays are located inside the terminal box and will automatically reset after tripping (See Table 5). Load terminals of the overloads are 1/4 inch quick connect for ratings of 30 amps and below, and #10 screw terminals for ratings over 30 amps. Control circuit terminals are 1/4 inch quick connects.

COMPRESSOR MODEL	ELECTRICAL DATA					
	VOLT	HP	MAX. KW	MCC	RLA	LRA
06DR1090GA31*0	575	2	3.1	4.4	2.8	21.3
GA32*0	208/230			12.1	8.6	53.3
GA36*0	460			5.5	3.9	26.3
06DR0130CA31*0	575	3	4.3	7.0	5.0	28.4
CA32*0	208/230			17.4	12.4	71.0
CA32*0	208/230			17.4	12.4	71.0
CA36*0	460			8.7	6.2	35.5
06DR3160CA31*0	575	5	6.25	10.8	7.7	40.0
CA32*0	208/230			27.0	19.3	100.0
CA32*0	208/230			27.0	19.3	100.0
CA36*0	460			13.5	9.6	50.0
06DR7180DA31*0	575	5	6.25	10.8	7.7	40.0
DA32*0	208/230			27.0	19.3	100.0
DA32*0	208/230			27.0	19.3	100.0
DA36*0	460			13.5	9.6	50.0
06DR8200DA31*0	575	6.5	9.8	17.6	12.6	64.0
DA32*0	208/230			44.0	31.4	160.0
DA36*0	460			22.0	15.7	80.0
06DR7240DA31*0	575	6.5	9.8	17.6	12.6	64.0
DA32*0	208/230			44.0	31.4	160.0
DA36*0	460			22.0	15.7	80.0
06DR2280DA31*0	575	7.5	12.8	22.2	15.9	79.0
DA32*0	208/230			55.5	39.6	198.0
DA36*0	460			27.8	19.8	99.0
06DR3370DA31*0	575	10	16.5	25.0	17.9	91.0
DA32*0	208/230			62.0	44.3	228.0
DA36*0	460			31.0	22.1	114.0

* 0 or 5.

COMPRESSOR MODEL	ELECTRICAL DATA					
	VOLT	HP	MAX. KW	MCC	RLA	LRA
06DM8080GA31*0	575	3	4.1	7.0	5.0	28.4
GA32*0	208/230			17.4	12.4	71.0
GA32*0	208/230			17.4	12.4	71.0
GA36*0	460			8.7	6.2	35.5
06DM3130CA31*0	575	5	6.25	10.8	7.7	40.0
CA32*0	208/230			27.0	19.3	100.0
CA32*0	208/230			27.0	19.3	100.0
CA36*0	460			13.5	9.6	50.0
06DM3160CA31*0	575	5	6.25	10.8	7.7	40.0
CA32*0	208/230			27.0	19.3	100.0
CA32*0	208/230			27.0	19.3	100.0
CA36*0	460			13.5	9.6	50.0
06DM3370DA31*0	575	10	16.5	25.0	17.9	91.0
DA32*0	208/230			62.0	44.3	228.0
DA36*0	460			31.0	22.1	114.0
06DA8182AA31*0	575	6.5	9.78	17.6	12.6	64.0
AA32*0	208/230			44.0	31.4	160.0
AA36*0	460			22.0	15.7	80.0
06DA8242BA31*0	575	7.5	12.8	22.2	15.9	79.0
BA32*0	208/230			55.5	39.6	198.0
BA36*0	460			27.8	19.8	99.0
06DA3282BA31*0	575-3-60	10	16.5	25.0	17.9	91.0
BA32*0	208/230			62.0	44.3	228.0
BA36*0	460			31.0	22.1	114.0
06DA537BA01*0	575	15	20.7	32.0	22.9	96.0
BA12*0	208/230			89.0	63.6	266.0
BA06*0	460			40.0	28.6	120.0

* 0 or 5.

ALLOWABLE OPERATING RANGE		
NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50Hz)	460	342
200 (50Hz)	230	180

LEGEND
LRA – Locked Rotor Amps
MCC – Maximum Continuous Current
RLA – Rated Load Amps

Table 5—Electrical Specifications