



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
20.0	10.85	14.35	18.65	23.80	30.10	37.40	40.70		
25.0	10.25	13.50	17.50	22.40	28.30	35.20	38.20	43.20	47.70
30.0	9.55	12.60	16.35	21.00	26.40	32.90	35.80	40.50	44.80
35.0	8.83	11.70	15.20	19.50	24.60	30.70	33.50	37.90	41.90
40.0	8.09	10.75	14.05	18.05	22.80	28.50	31.10	35.30	39.00
45.0	7.35	9.84	12.90	16.60	21.10	26.40	28.80	32.70	36.20
50.0	6.61	8.95	11.80	15.25	19.40	24.40	26.60	30.20	33.50
55.0	5.91	8.09	10.75	13.95	17.80	22.40	24.50	27.90	30.90
60.0	5.25	7.29	9.74	12.70	16.25	20.50	22.50	25.60	28.50
65.0	4.65	6.56	8.84	11.55	14.85	18.80	20.60	23.50	26.10

50Hz

D3SS-100X

R134a

Cond °C	Power, kW								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
20.0	4.40	4.87	5.31	5.70	6.04	6.31	6.40		
25.0	4.59	5.11	5.61	6.08	6.49	6.84	6.96	7.11	7.21
30.0	4.74	5.32	5.89	6.43	6.92	7.35	7.50	7.70	7.85
35.0	4.86	5.51	6.14	6.75	7.32	7.83	8.02	8.28	8.47
40.0	4.95	5.66	6.37	7.05	7.70	8.30	8.52	8.84	9.08
45.0	5.01	5.79	6.57	7.33	8.06	8.75	9.01	9.38	9.67
50.0	5.05	5.90	6.75	7.59	8.41	9.19	9.49	9.92	10.25
55.0	5.06	5.98	6.91	7.84	8.74	9.62	9.95	10.45	10.85
60.0	5.05	6.05	7.06	8.07	9.07	10.05	10.40	10.95	11.40
65.0	5.03	6.10	7.19	8.29	9.38	10.45	10.85	11.50	12.00

Cond °C	Current at 400 V, A								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
20.0	10.75	11.21	11.66	12.07	12.43	12.70	12.79		
25.0	11.10	11.65	12.19	12.72	13.20	13.62	13.76	13.94	14.06
30.0	11.31	11.94	12.59	13.23	13.84	14.39	14.59	14.87	15.07
35.0	11.42	12.13	12.88	13.63	14.37	15.06	15.32	15.68	15.96
40.0	11.45	12.25	13.10	13.96	14.82	15.65	15.97	16.43	16.79
45.0	11.44	12.33	13.28	14.25	15.23	16.20	16.58	17.13	17.57
50.0	11.43	12.41	13.45	14.53	15.64	16.74	17.18	17.82	18.34
55.0	11.44	12.50	13.64	14.84	16.07	17.31	17.80	18.53	19.13
60.0	11.51	12.66	13.90	15.20	16.55	17.93	18.48	19.30	19.98
65.0	11.67	12.90	14.24	15.65	17.13	18.64	19.25	20.16	20.92

Cond °C	Mass Flow, g/s								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
20.0	65.10	84.30	107.50	135.00	167.50	205.00	221.00		
25.0	64.10	82.90	105.50	132.50	164.00	200.00	216.00	242.00	265.00
30.0	62.70	81.00	103.00	129.50	160.00	195.50	211.00	236.00	259.00
35.0	61.00	78.90	100.50	126.00	156.00	191.00	206.00	231.00	253.00
40.0	58.90	76.50	97.60	122.50	152.00	186.00	201.00	225.00	247.00
45.0	56.60	73.90	94.60	119.00	147.50	181.00	195.50	219.00	240.00
50.0	54.20	71.40	91.70	115.50	143.50	176.50	190.50	214.00	235.00
55.0	51.70	68.90	88.90	112.50	140.00	172.00	186.00	209.00	229.00
60.0	49.50	66.60	86.50	109.50	136.50	168.00	182.00	204.00	224.00
65.0	47.50	64.90	84.60	107.50	134.00	165.00	178.50	200.00	220.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	177
Suction, inch	1 3/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
Frequency Range, Hz	25 - 60
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m, dBA	66.5
Sound Power, dBA	77.5
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	26
Locked Rotor Current, A	109
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Liquid Injection	DTC Valve
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 06 400 420

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
AWM	380-420 V / 3~ / 50 Hz	400	YYY	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00