



Minimum Evaporating Temp. With:

25 °C Suction Gas Return

Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	11.55	14.90	18.85	23.40	28.70	34.80	41.80	44.90	49.90	54.30
35.0	10.65	13.90	17.65	22.00	27.00	32.80	39.50	42.50	47.20	51.40
40.0	9.83	12.90	16.45	20.60	25.40	30.90	37.20	40.00	44.50	48.50
45.0		11.90	15.30	19.20	23.70	29.00	34.90	37.60	41.80	45.60
50.0		11.00	14.20	17.90	22.20	27.10	32.70	35.20	39.10	42.70
55.0			13.15	16.60	20.60	25.20	30.50	32.80	36.50	39.80
60.0			12.15	15.40	19.10	23.40	28.30	30.40	33.90	
62.0				14.90	18.55	22.70	27.40	29.50		

50 Hz

D3DC-100X

R22

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	4.91	5.37	5.75	6.05	6.23	6.28	6.18	6.08	5.88	5.66
35.0	5.10	5.64	6.12	6.52	6.82	6.99	7.02	6.99	6.89	6.75
40.0	5.28	5.90	6.46	6.96	7.36	7.66	7.83	7.86	7.84	7.78
45.0		6.13	6.78	7.37	7.88	8.30	8.60	8.68	8.75	8.77
50.0		6.36	7.09	7.77	8.38	8.90	9.33	9.46	9.62	9.72
55.0			7.39	8.15	8.85	9.49	10.05	10.20	10.45	10.60
60.0			7.69	8.53	9.32	10.05	10.70	10.95	11.25	
62.0				8.68	9.51	10.25	10.95	11.20		

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	10.46	11.12	11.69	12.13	12.41	12.48	12.32	12.18	11.89	11.56
35.0	10.74	11.53	12.24	12.83	13.28	13.55	13.60	13.55	13.39	13.18
40.0	11.00	11.91	12.75	13.49	14.11	14.57	14.82	14.86	14.84	14.75
45.0		12.26	13.23	14.12	14.90	15.54	16.00	16.12	16.24	16.27
50.0		12.60	13.69	14.72	15.66	16.47	17.12	17.33	17.58	17.73
55.0			14.15	15.31	16.39	17.37	18.21	18.50	18.88	19.14
60.0			14.61	15.89	17.11	18.25	19.26	19.63	20.13	
62.0				16.13	17.40	18.59	19.68	20.07		

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	61.30	79.40	101.00	126.00	155.50	189.50	230.00	248.00	277.00	303.00
35.0	58.70	76.60	97.70	122.50	151.50	185.50	225.00	243.00	272.00	298.00
40.0	56.10	73.80	94.60	119.00	147.50	181.00	220.00	238.00	266.00	292.00
45.0		71.00	91.50	115.50	144.00	177.00	215.00	233.00	260.00	286.00
50.0		68.30	88.50	112.00	140.00	172.50	210.00	227.00	255.00	280.00
55.0			85.70	109.00	136.50	168.00	205.00	222.00	249.00	273.00
60.0			83.30	106.00	133.00	164.00	200.00	217.00	243.00	
62.0				105.00	131.50	162.50	198.50	215.00		

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m <sup>3</sup> /h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	164
Gross Weight, kg	175
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.5
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

**ACCESSORIES OPTIONAL**

Capacity Control	Moduload
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
Oil Control System	ALCO Trax-Oil OM3

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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