



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
 — 20 °C Suction Gas Return
 — 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

6MI-40X

R513A

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	15.0	20.0	25.0
10.0	31.50	39.50	49.50	61.70									
15.0	29.40	37.20	46.70	58.30	72.10								
20.0	27.40	34.80	43.90	55.00	68.10	83.50							
25.0	25.40	32.50	41.20	51.70	64.10	78.70	95.60						
30.0	23.40	30.20	38.40	48.30	60.10	73.90	89.90	96.90	108.00	118.50			
35.0	21.50	27.90	35.70	45.00	56.10	69.10	84.10	90.70	101.50	111.00	121.00		
40.0	19.65	25.70	33.00	41.80	52.10	64.30	78.30	84.50	94.50	103.50	113.00		
45.0	17.80	23.50	30.30	38.50	48.20	59.50	72.50	78.30	87.60	95.90	104.50		
50.0	16.00	21.30	27.70	35.30	44.20	54.60	66.70	72.10	80.60	88.30	96.50		
55.0		19.20	25.10	32.00	40.20	49.80	60.90	65.80	73.70	80.70	88.20		
60.0		17.10	22.50	28.80	36.30	45.00	55.10	59.50	66.70	73.10	80.00		
65.0			19.95	25.60	32.40	40.20	49.30	53.30	59.70	65.50	71.60		
70.0			17.40	22.50	28.40	35.40	43.40	47.00	52.70	57.90	63.30		
75.0				19.35	24.50	30.60	37.60	40.70	45.70	50.20	55.00		
80.0				16.20	20.60	25.80	31.80	34.50	38.70	42.60	46.70		
85.0					16.80	21.00	26.00	28.20	31.80	34.90	38.30		

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	8.58	9.10	9.44	9.54									
15.0	9.23	9.92	10.45	10.75	10.85								
20.0	9.81	10.65	11.35	11.90	12.20	12.25							
25.0	10.30	11.30	12.20	12.95	13.45	13.75	13.75						
30.0	10.80	11.90	12.95	13.90	14.65	15.20	15.45	15.50	15.45	15.30			
35.0	11.15	12.45	13.65	14.75	15.75	16.50	17.05	17.20	17.35	17.35	17.30		
40.0	11.50	12.90	14.25	15.55	16.75	17.75	18.55	18.85	19.15	19.30	19.40		
45.0	11.80	13.30	14.80	16.30	17.65	18.90	20.00	20.30	20.80	21.10	21.40		
50.0	12.10	13.70	15.30	16.95	18.50	20.00	21.30	21.80	22.40	22.90	23.30		
55.0		14.00	15.75	17.55	19.30	21.00	22.50	23.10	23.90	24.50	25.10		
60.0		14.30	16.20	18.10	20.00	21.90	23.70	24.40	25.30	26.10	26.80		
65.0			16.55	18.60	20.70	22.80	24.80	25.50	26.70	27.60	28.40		
70.0			16.85	19.05	21.30	23.60	25.80	26.70	27.90	28.90	29.90		
75.0				19.50	21.90	24.30	26.70	27.70	29.10	30.30	31.40		
80.0				19.85	22.40	25.00	27.60	28.70	30.20	31.50	32.70		
85.0					22.90	25.70	28.50	29.60	31.30	32.70	34.00		

Additional restrictions, please see application guidelines

50 Hz

6MI-40X

R513A

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	15.0	20.0	25.0
10.0	27.50	28.04	28.45	28.66									
15.0	28.03	28.68	29.24	29.63	29.79								
20.0	28.55	29.31	30.02	30.60	30.98	31.08							
25.0	29.05	29.93	30.79	31.55	32.16	32.53	32.60						
30.0	29.52	30.52	31.53	32.49	33.33	33.97	34.34	34.40	34.38	34.24			
35.0	29.96	31.07	32.25	33.41	34.48	35.39	36.07	36.27	36.45	36.51	36.46		
40.0	30.35	31.59	32.93	34.29	35.60	36.79	37.78	38.11	38.51	38.76	38.91		
45.0	30.69	32.07	33.57	35.13	36.68	38.15	39.46	39.93	40.55	40.98	41.34		
50.0	30.98	32.48	34.16	35.93	37.73	39.48	41.11	41.71	42.55	43.18	43.73		
55.0		32.84	34.69	36.67	38.72	40.75	42.71	43.45	44.51	45.34	46.09		
60.0		33.13	35.16	37.35	39.65	41.98	44.26	45.15	46.43	47.45	48.41		
65.0			35.55	37.97	40.52	43.14	45.75	46.78	48.29	49.51	50.68		
70.0			35.87	38.51	41.32	44.23	47.18	48.35	50.09	51.51	52.89		
75.0				38.96	42.04	45.25	48.54	49.85	51.82	53.44	55.03		
80.0				39.33	42.67	46.19	49.81	51.28	53.47	55.30	57.10		
85.0					43.21	47.03	51.00	52.61	55.05	57.07	59.09		

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	15.0	20.0	25.0
10.0	167.50	211.00	265.00	330.00									
15.0	162.50	205.00	259.00	324.00	402.00								
20.0	157.00	200.00	253.00	318.00	395.00	487.00							
25.0	151.50	194.50	247.00	312.00	388.00	479.00	585.00						
30.0	146.50	189.00	241.00	305.00	381.00	470.00	575.00	622.00	697.00	765.00			
35.0	141.00	183.50	235.00	298.00	373.00	461.00	565.00	611.00	686.00	753.00	826.00		
40.0	135.50	177.50	229.00	291.00	365.00	452.00	554.00	600.00	674.00	740.00	812.00		
45.0	130.00	171.50	222.00	283.00	356.00	442.00	543.00	588.00	661.00	727.00	798.00		
50.0	124.00	165.50	216.00	276.00	347.00	432.00	531.00	576.00	648.00	713.00	783.00		
55.0		159.50	209.00	268.00	338.00	421.00	519.00	563.00	634.00	698.00	767.00		
60.0		153.00	201.00	260.00	329.00	410.00	506.00	549.00	619.00	682.00	750.00		
65.0			194.00	251.00	318.00	398.00	493.00	535.00	603.00	666.00	733.00		
70.0			186.00	242.00	308.00	386.00	478.00	520.00	587.00	649.00	715.00		
75.0				232.00	296.00	373.00	464.00	504.00	571.00	632.00	697.00		
80.0				222.00	285.00	360.00	450.00	490.00	556.00	616.00	681.00		
85.0					276.00	351.00	440.00	480.00	547.00	608.00	674.00		

Additional restrictions, please see application guidelines

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m³/h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	219
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
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)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	631
Refrigerant's classification	A1

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

Maximum Operating Current, A	71.4
Locked Rotor Current, A	321
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Oil Pressure Switch (-P)	OPS2 Sensor
CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

Additional restrictions, please see application guidelines

## ACCESSORIES OPTIONAL

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Discharge Shut-off	Angle valve
Copeland Compressor Electronic module	Modbus extension module

## MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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
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
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00

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