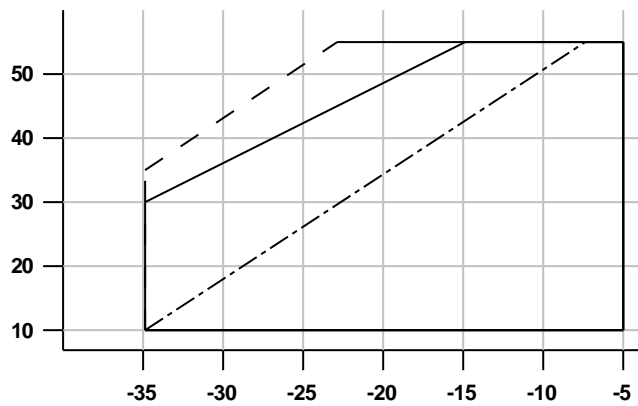


50Hz

D3SC-750

R22



Minimum evaporating temp. with:

- 20K Suction Superheat
- - - 20K Suction Superheat + Fan
- . - . 20°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW						
	-35	-30	-25	-20	-15	-10	-5
10	8.65	11.35	14.55	18.35	22.80	27.90	33.80
20			12.75	16.25	20.30	25.10	30.50
25			11.85	15.20	19.10	23.60	28.90
30				14.10	17.85	22.20	27.20
35					16.60	20.80	25.60
40					15.40	19.35	23.90
45						17.90	22.30
50						16.50	20.60
55							19.00
	Power Input kW						
	-35	-30	-25	-20	-15	-10	-5
10	3.55	3.95	4.35	4.76	5.19	5.63	6.09
20			4.72	5.21	5.71	6.23	6.76
25			4.89	5.42	5.97	6.53	7.11
30				5.63	6.22	6.83	7.46
35					6.48	7.15	7.83
40					6.74	7.47	8.21
45						7.80	8.61
50						8.14	9.02
55							9.45
	Current 400V, A						
	-35	-30	-25	-20	-15	-10	-5
10	9.26	9.71	10.14	10.54	10.90	11.22	11.51
20			10.39	10.95	11.50	12.04	12.57
25			10.57	11.22	11.87	12.52	13.17
30				11.50	12.25	13.02	13.79
35					12.65	13.52	14.42
40					13.02	14.02	15.05
45						14.49	15.65
50						14.91	16.20
55							16.70
	Mass Flow g/s						
	-35	-30	-25	-20	-15	-10	-5
10	40.40	53.00	68.30	86.50	108.00	132.50	161.00
20			63.40	81.00	102.00	126.50	155.00
25			60.80	78.50	99.00	123.00	151.00
30				75.00	95.50	119.50	147.50
35					92.00	116.00	143.50
40					88.50	112.00	139.00
45						108.00	135.00
50						103.50	130.50
55							126.00

50Hz

D3SC-750

R22

DWM Copeland - Compressor - Refrigeration - Standard**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, cu.m/h	38
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	655/370
Height, mm	480
Net Weight, kg	159
Gross Weight, kg	174
Suction, inch	1 3/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	17
Locked Rotor Current, A	82
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70W Vertical Air Flow Fan
Crankcase Heater	70W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
500-550 V/3~/50H	525	TWY		DELTA	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

Copeland Selection Software

REFRIGERANT R22

Operating Conditions:

Evaporating Temperature: -10.0°C
 Condensing Temperature: 45.0°C
 Liquid subcooling: 0.0K
 Suction Return Temperature: 20.0°C

Required Capacity: 20.0 kW
 Compressor Selected: D3SC-750

PERFORMANCE AT SPECIFIED OPERATING POINT **D3SC-750 Data at 50 Hz**

Capacity kW	17.90
Power Input kW	7.80
COP	2.30
Mass Flow g/s	108.00
Heat Rejection kW	25.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 3	Bore/Stroke, mm 60.4/50.8
Length/Width, mm 655/370	Height, mm 480
Net Weight, kg 159	Gross Weight, kg 174
Suction, inch 1 3/8	Discharge, inch 1 1/8
Oil Quantity, l 3.7	Frequency Range, Hz 25 - 60
High Side PS, bar(g) 28	Low Side PS, bar(g) 22.5
Displacement @ 50 Hz, cu.m/h 38	
Base mounting (hole dia), mm 381 x 305 (18.0)	

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

Locked Rotor Current, A 82
 Maximum Operating Current, A 17
 Default Enclosure Class IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling
Crankcase Heater
Enclosure Class
Oil Pressure Switch
Unloaded start
Deep Oil Sump
Adapter Kit
Check Valve (NRV)

70W Vertical Air Flow Fan
70W Internal
IP 56
OPS2 Electronic Switch
Available
Mounted
For Parallel Operation
For unloaded start operation