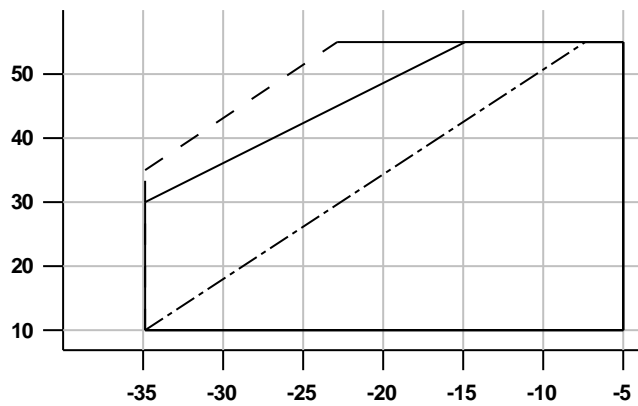


50Hz

D3SS-1000

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	11.65	15.20	19.45	24.50	30.30	37.00	44.60
20			17.05	21.60	27.00	33.10	40.20
25			15.90	20.30	25.30	31.20	37.90
30				18.90	23.70	29.30	35.80
35					22.20	27.50	33.60
40					20.60	25.70	31.50
45						23.90	29.40
50						22.20	27.40
55							25.40
	Power Input kW						
	-35	-30	-25	-20	-15	-10	-5
10	4.93	5.53	6.16	6.84	7.58	8.40	9.34
20			6.68	7.44	8.26	9.15	10.15
25			6.91	7.73	8.59	9.53	10.55
30				8.00	8.92	9.90	10.95
35					9.25	10.30	11.40
40					9.59	10.70	11.85
45						11.10	12.30
50						11.50	12.80
55							13.30
	Current 400V, A						
	-35	-30	-25	-20	-15	-10	-5
10	11.09	12.14	13.15	14.14	15.14	16.18	17.27
20			13.90	14.96	16.07	17.25	18.51
25			14.28	15.40	16.58	17.84	19.21
30				15.84	17.10	18.46	19.94
35					17.62	19.09	20.69
40					18.11	19.70	21.45
45						20.30	22.19
50						20.86	22.91
55							23.59
	Mass Flow g/s						
	-35	-30	-25	-20	-15	-10	-5
10	54.30	71.20	91.50	115.00	143.00	176.00	213.00
20			85.00	108.00	135.50	167.00	204.00
25			81.50	104.50	131.00	162.00	199.00
30				100.50	127.00	158.00	194.00
35					123.00	153.00	188.00
40					118.50	148.50	183.00
45						144.00	178.00
50						139.00	173.00
55							168.00

50Hz

D3SS-1000

R22

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

Number of cylinders	3
Displacement @ 50 Hz, cu.m/h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	163
Gross Weight, kg	178
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	24.2
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	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**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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: D3SS-1000

### **PERFORMANCE AT SPECIFIED OPERATING POINT** **D3SS-1000 Data at 50 Hz**

Capacity kW	23.90
Power Input kW	11.10
COP	2.16
Mass Flow g/s	144.00
Heat Rejection kW	34.40

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

Number of cylinders 3	Bore/Stroke, mm 61.9/63.5
Length/Width, mm 680/370	Height, mm 480
Net Weight, kg 163	Gross Weight, kg 178
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 49.9	
Base mounting (hole dia), mm 381 x 305 (18.0)	

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

Locked Rotor Current, A 109  
 Maximum Operating Current, A 24.2  
 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