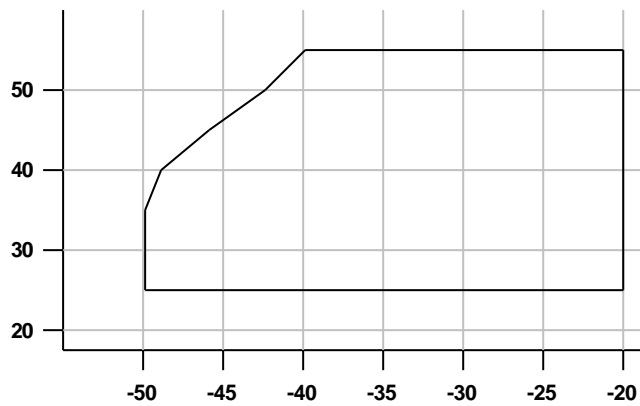


50Hz

D6DL-2700 DC

R22



Minimum evaporating temp. with:

———— 25°C Suction Gas Return + Fan + Liquid Injection

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW						
	-50	-45	-40	-35	-30	-25	-20
25	7.19	10.20	14.00	18.65	24.10	30.50	37.90
30	6.45	9.35	13.00	17.45	22.80	28.90	36.00
35	5.67	8.46	11.95	16.25	21.30	27.30	34.10
40		7.52	10.85	14.95	19.85	25.50	32.10
45		6.52	9.74	13.65	18.35	23.80	30.00
50			8.55	12.30	16.75	22.00	27.90
55			7.27	10.85	15.10	20.10	25.80
	Power Input kW						
	-50	-45	-40	-35	-30	-25	-20
25	6.83	8.10	9.40	10.65	11.85	12.85	13.70
30	6.72	8.17	9.66	11.15	12.55	13.80	14.90
35	6.52	8.16	9.85	11.50	13.15	14.65	16.00
40		8.04	9.93	11.80	13.65	15.40	17.00
45		7.81	9.90	12.00	14.10	16.05	17.90
50			9.74	12.05	14.35	16.60	18.70
55			9.44	12.00	14.55	17.00	19.35
	Current 400V, A						
	-50	-45	-40	-35	-30	-25	-20
25	18.68	19.91	21.32	22.81	24.27	25.59	26.68
30	18.58	19.99	21.62	23.37	25.13	26.81	28.29
35	18.40	19.99	21.84	23.85	25.92	27.95	29.82
40		19.87	21.95	24.23	26.61	28.99	31.26
45		19.62	21.92	24.47	27.17	29.91	32.58
50			21.74	24.56	27.57	30.67	33.74
55			21.37	24.46	27.80	31.25	34.74
	Mass Flow g/s						
	-50	-45	-40	-35	-30	-25	-20
25	36.50	51.90	71.40	95.00	123.50	157.00	195.00
30	33.90	49.20	68.50	92.00	120.50	154.00	192.00
35	30.80	46.00	65.20	88.50	117.00	150.00	188.00
40		42.40	61.50	85.00	113.00	145.50	184.00
45		38.30	57.20	80.50	108.50	141.00	179.00
50			52.30	75.50	103.00	135.50	173.00
55			46.50	69.60	97.00	129.50	167.00

50Hz

D6DL-2700 DC

R22

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

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	106
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	740/580
Height, mm	650
Net Weight, kg	242
Gross Weight, kg	258
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Oil Quantity, l	3.3
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m, dBA	80
Sound Power, dBA	91
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	37.1
Locked Rotor Current, A	199
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	100W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Liquid Injection	Demand Cooling
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
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
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

Model: D6DL-2700 DC

Refrigerant: R22

S.I.

Suction Return Temperature 20.0°C

Liquid subcooling 0.0K

50Hz

	Evaporating Temperature °C						
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
	Capacity kW						
25.0	*7.19	*10.20	*14.00	*18.65	*24.10	*30.50	*37.90
30.0	*6.45	*9.35	*13.00	*17.45	*22.80	*28.90	*36.00
35.0	*5.67	*8.46	*11.95	*16.25	*21.30	*27.30	*34.10
40.0		*7.52	*10.85	*14.95	*19.85	*25.50	*32.10
45.0		*6.52	*9.74	*13.65	*18.35	*23.80	*30.00
50.0			*8.55	*12.30	*16.75	*22.00	*27.90
55.0			*7.27	*10.85	*15.10	*20.10	*25.80

	Power Input kW						
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
25.0	*6.83	*8.10	*9.40	*10.65	*11.85	*12.85	*13.70
30.0	*6.72	*8.17	*9.66	*11.15	*12.55	*13.80	*14.90
35.0	*6.52	*8.16	*9.85	*11.50	*13.15	*14.65	*16.00
40.0		*8.04	*9.93	*11.80	*13.65	*15.40	*17.00
45.0		*7.81	*9.90	*12.00	*14.10	*16.05	*17.90
50.0			*9.74	*12.05	*14.35	*16.60	*18.70
55.0			*9.44	*12.00	*14.55	*17.00	*19.35

	COP						
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
25.0	*1.05	*1.26	*1.49	*1.75	*2.04	*2.37	*2.76
30.0	*0.96	*1.14	*1.34	*1.57	*1.82	*2.10	*2.42
35.0	*0.87	*1.04	*1.21	*1.41	*1.62	*1.86	*2.13
40.0		*0.93	*1.10	*1.27	*1.45	*1.66	*1.89
45.0		*0.84	*0.98	*1.14	*1.30	*1.48	*1.68
50.0			*0.88	*1.02	*1.17	*1.32	*1.49
55.0			*0.77	*0.91	*1.04	*1.18	*1.33

	Mass Flow g/s						
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
25.0	*36.50	*51.90	*71.40	*95.00	*123.50	*157.00	*195.00
30.0	*33.90	*49.20	*68.50	*92.00	*120.50	*154.00	*192.00
35.0	*30.80	*46.00	*65.20	*88.50	*117.00	*150.00	*188.00
40.0		*42.40	*61.50	*85.00	*113.00	*145.50	*184.00
45.0		*38.30	*57.20	*80.50	*108.50	*141.00	*179.00
50.0			*52.30	*75.50	*103.00	*135.50	*173.00
55.0			*46.50	*69.60	*97.00	*129.50	*167.00

	Heat Rejection kW						
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0
25.0	*10.25	*14.55	*20.00	*26.70	*34.70	*42.80	*50.90
30.0	*9.25	*13.40	*18.70	*25.10	*32.90	*41.90	*50.10
35.0	*8.18	*12.20	*17.30	*23.50	*31.00	*39.80	*49.20
40.0		*10.95	*15.85	*21.90	*29.10	*37.50	*47.30
45.0		*9.55	*14.30	*20.10	*27.00	*35.20	*44.60
50.0			*12.65	*18.20	*24.90	*32.70	*41.80
55.0			*10.80	*16.20	*22.60	*30.10	*38.90

[* . Please consult application envelope.]

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:

D6DL-2700 DC

PERFORMANCE AT SPECIFIED OPERATING POINT
D6DL-2700 DC Data at 50 Hz

Operating conditions outside Compressor limits

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 6	Bore/Stroke, mm 68.3/55.6
Length/Width, mm 740/580	Height, mm 650
Net Weight, kg 242	Gross Weight, kg 258
Suction, inch 2 1/8	Oil Quantity, l 3.3
Frequency Range, Hz 25 - 60	Sound Power, dBA 91
High Side PS, bar(g) 28	Low Side PS, bar(g) 22.5
Displacement @ 50 Hz, cu.m/h 106	
Rotalock Discharge, inch 1 3/8	
Base mounting (hole dia), mm 381 x 305 (18.0)	
Sound Pressure @ 1m, dBA 80	

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

Locked Rotor Current, A 199
Maximum Operating Current, A 37.1
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	100W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Liquid Injection	Demand Cooling
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