

Technical Data Sheet

Compressor model **MS34TB_V**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High Back Pressure	Displacement	34,42 cm ³	Nominal Power	1 5/8 hp
Refrigerant	R404A	Diameter	42,86 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-15,0 °C to 10,0 °C	Stroke	23,85 mm	Voltage range	198-255 V
Expansion	Capillar/Valve	Net Weight	22,21 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 46 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	887 cm ³	Locked Rotor Amps (LRA)	41,00 A
				Max. Cont. Current (MCC)	17,50 A
				Main W. resist. at 25°C	1,38 Ω
				Start W. resist. at 25°C	4,58 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	4.550 kCal/h	4.205 W
COP	2,30 W/W	1,89 W/W
EER	1,98 kCal/Wh	1,64 kCal/Wh
Input Power	2.300 W	2.221 W
Current	11,50 A	11,10 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HBP (D)	CECOMAF HBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	88-108 μF 330 V		
Run capacitor	25 μF 420 V		
Relay	Option 1	Option 2	
Reference	3ARR3 10AS3	RVA 3G..	
Pick-Up	180-195 V	180-195 V	
Drop-Out	40-105 V	40-105 V	
Protector	Option 1	Option 2	
Reference	CRA38008	GA3PLS00	
Current	36,50 A	36,50 A	
Time check	7,5-14 seg	6,0-16 seg	
Disc temp. (Open/Close)	130,00 / 69,00 °C	125,00 / 69,00 °C	

ASHRAE

Tc	Te	Cooling Capacity	Consumption	Current	COP	EER
°C	°C	kCal/h	W	A	W/W	kCal/Wh
40	-15	2.525	1.360	7,08	2,16	1,86
40	-10	3.169	1.477	7,59	2,50	2,15
40	-5	3.871	1.610	8,18	2,80	2,40
40	0	4.630	1.758	8,85	3,06	2,63
40	5	5.447	1.923	9,63	3,30	2,83
40	7,2	5.825	2.000	10,00	3,39	2,91
40	10	6.322	2.103	10,50	3,50	3,01

45	-15	2.300	1.400	7,25	1,91	1,64
45	-10	2.899	1.531	7,82	2,20	1,89
45	-5	3.556	1.677	8,48	2,47	2,12
45	0	4.270	1.839	9,23	2,70	2,32
45	5	5.042	2.017	10,08	2,91	2,50
45	7,2	5.400	2.100	10,49	2,99	2,57
45	10	5.872	2.210	11,04	3,09	2,66

50	-15	2.075	1.440	7,43	1,68	1,44
50	-10	2.629	1.584	8,06	1,93	1,66
50	-5	3.241	1.744	8,79	2,16	1,86
50	0	3.910	1.919	9,61	2,37	2,04
50	5	4.637	2.111	10,54	2,55	2,20
50	7,2	4.975	2.200	10,99	2,63	2,26
50	10	5.421	2.318	11,59	2,72	2,34

55	-15	1.850	1.480	7,60	1,45	1,25
55	-10	2.359	1.638	8,30	1,68	1,44
55	-5	2.926	1.811	9,10	1,88	1,62
55	0	3.550	2.000	10,00	2,06	1,78
55	5	4.232	2.205	11,02	2,23	1,92
55	7,2	4.550	2.300	11,50	2,30	1,98
55	10	4.971	2.425	12,15	2,38	2,05

60	-15	1.625	1.520	7,78	1,24	1,07
60	-10	2.089	1.691	8,54	1,44	1,24
60	-5	2.611	1.878	9,41	1,62	1,39
60	0	3.190	2.081	10,39	1,78	1,53
60	5	3.827	2.299	11,49	1,94	1,66
60	7,2	4.125	2.400	12,02	2,00	1,72
60	10	4.521	2.533	12,72	2,08	1,78

CECOMAF

Tc	Te	Cooling Capacity	Consumption	Current	COP	EER
°C	°C	W	W	A	W/W	kCal/Wh
40	-15	2.643	1.368	7,12	1,93	1,67
40	-10	3.325	1.486	7,63	2,24	1,93
40	-5	4.061	1.620	8,22	2,51	2,17
40	0	4.851	1.770	8,91	2,74	2,37
40	5	5.695	1.937	9,70	2,94	2,54
40	7,2	6.084	2.015	10,07	3,02	2,61
40	10	6.594	2.120	10,59	3,11	2,69

45	-15	2.379	1.408	7,29	1,69	1,46
45	-10	3.002	1.540	7,86	1,95	1,68
45	-5	3.680	1.688	8,53	2,18	1,88
45	0	4.412	1.852	9,29	2,38	2,06
45	5	5.198	2.032	10,15	2,56	2,21
45	7,2	5.562	2.116	10,57	2,63	2,27
45	10	6.039	2.228	11,13	2,71	2,34

50	-15	2.114	1.449	7,46	1,46	1,26
50	-10	2.680	1.594	8,10	1,68	1,45
50	-5	3.299	1.755	8,84	1,88	1,62
50	0	3.973	1.933	9,68	2,06	1,78
50	5	4.702	2.127	10,62	2,21	1,91
50	7,2	5.039	2.217	11,08	2,27	1,96
50	10	5.484	2.336	11,69	2,35	2,03

55	-15	1.850	1.489	7,64	1,24	1,07
55	-10	2.357	1.648	8,35	1,43	1,24
55	-5	2.919	1.823	9,15	1,60	1,38
55	0	3.535	2.014	10,07	1,76	1,52
55	5	4.205	2.221	11,10	1,89	1,64
55	7,2	4.517	2.318	11,59	1,95	1,68
55	10	4.930	2.445	12,25	2,02	1,74

60	-15	1.585	1.529	7,82	1,04	0,90
60	-10	2.034	1.702	8,59	1,20	1,03
60	-5	2.538	1.890	9,47	1,34	1,16
60	0	3.096	2.095	10,47	1,48	1,28
60	5	3.708	2.316	11,58	1,60	1,38
60	7,2	3.995	2.418	12,12	1,65	1,43
60	10	4.375	2.553	12,83	1,71	1,48

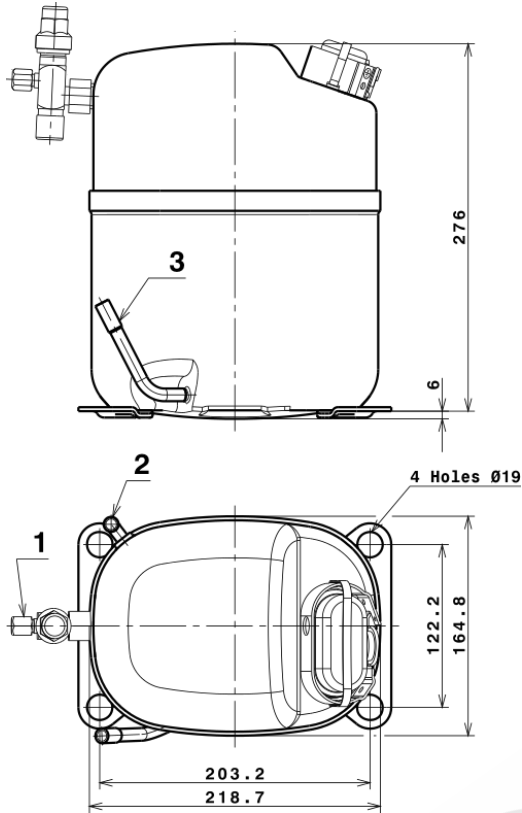
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	8.350,5442882897	1.153,3941011542	5,7468553249	165,75127442002
2	258,5798337510	10,8673224837	0,0332372368	5,4163285527166
3	-90,8581337303	16,7621126640	0,0840319868	-0,78417535205047
4	1,0270009715	0,3680793693	0,0025417641	0,059891119131809
5	-2,4850296113	0,5671141150	0,0031931599	-0,0080507010479633

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

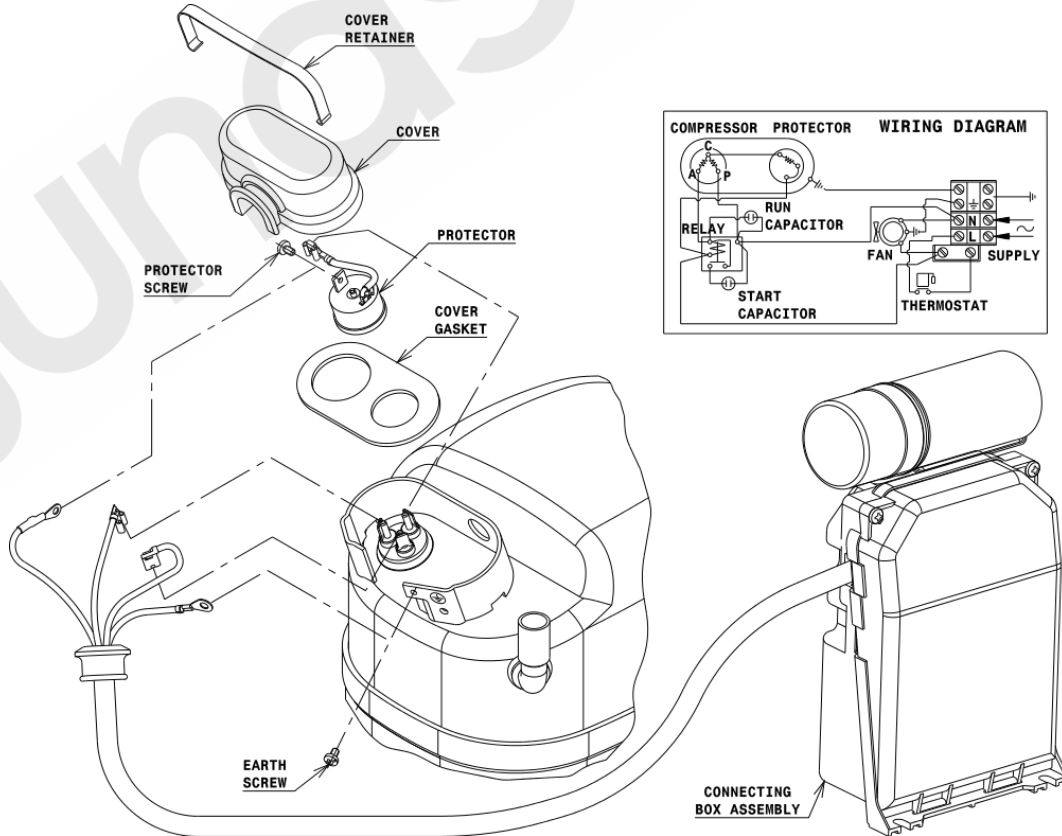
COMPRESSOR DIMENSIONS



	DESIGNATION	INTERNAL DIAM.
1	Service Valve	5/8" SAE
2	Service	9,7 mm
3	Discharge	8,0 mm

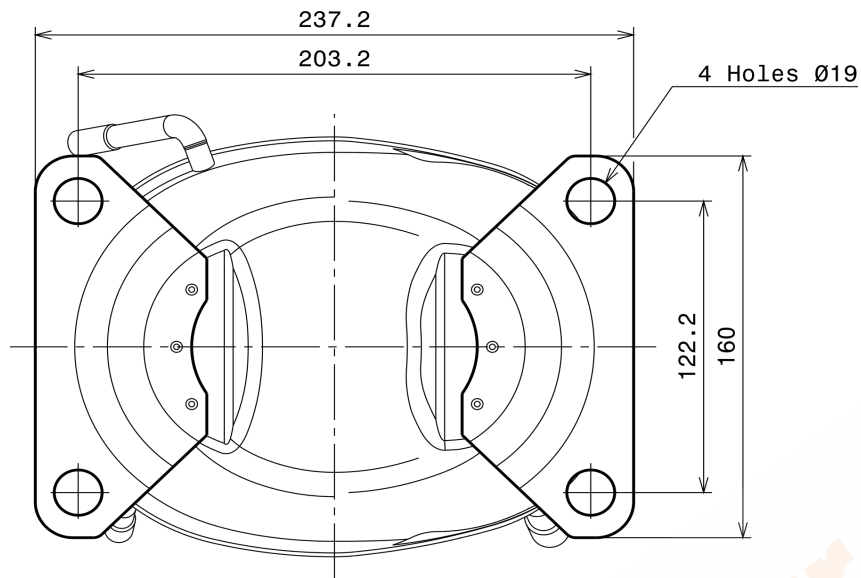
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



Technical Data Sheet

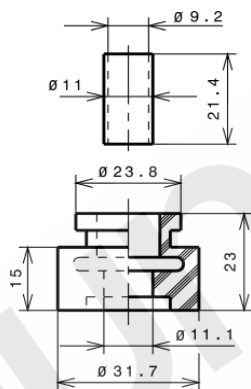
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (203.2x122.2 net)



SOA
SOA R404A HBP

