

Technical Data Sheet

Compressor model **MS34TB_T**
Voltage **220-240V 50Hz ~1**
Refrigerant **R404A**
Compressor status

APPLICATION

Application	High Back Pressure
Refrigerant	R404A
Evaporating Temp.	-15,0 °C to 10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

COMPRESSOR

Displacement	34,42 cm³
Diameter	42,86 mm
Stroke	23,85 mm
Net Weight	21,76 Kg
Oil type	ISO VG 46 ESTER
Oil charge	700 cm³
HP	1 5/8 hp

MOTOR

Voltage/Frequency	220-240V 50Hz
Voltage range	198-255 V
Type	CSR
Phase number	1 PH
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

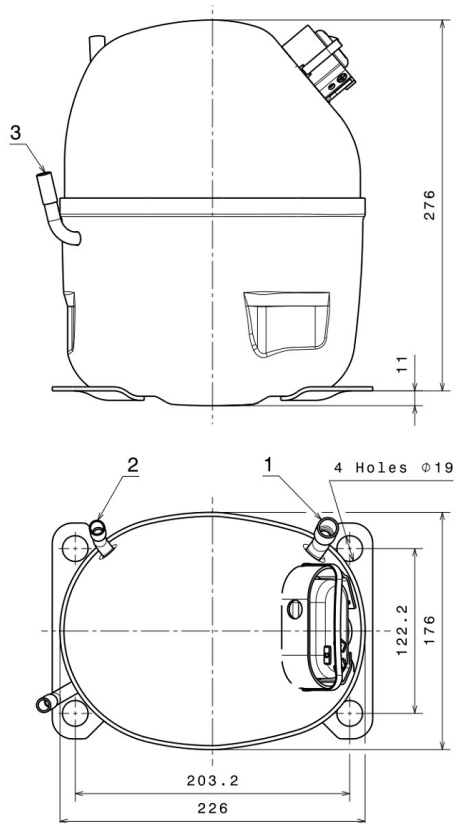
60	-15	1.585	1.529	7,82	1,04	0,90
60	-10	2.034	1.702	8,59	1,20	1,03
60	-5	2.538	1.890	9,47	1,34	1,16
60	0	3.096	2.095	10,47	1,48	1,28
60	5	3.708	2.316	11,58	1,60	1,38
60	7,2	3.995	2.418	12,12	1,65	1,43
60	10	4.375	2.553	12,83	1,71	1,48

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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COMPRESSOR DIMENSIONS

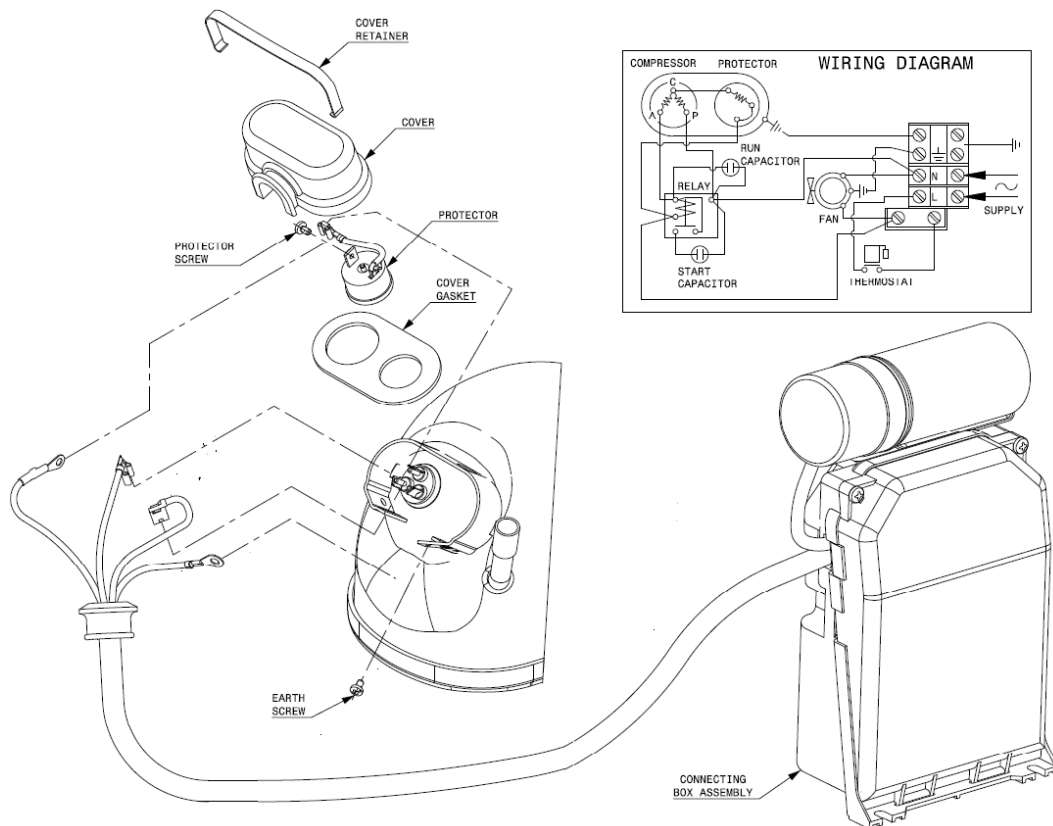


DESIGNATION INTERNAL DIAM.

1	Suction	12,7 mm
2	Service	9,7 mm
3	Discharge	8,0 mm

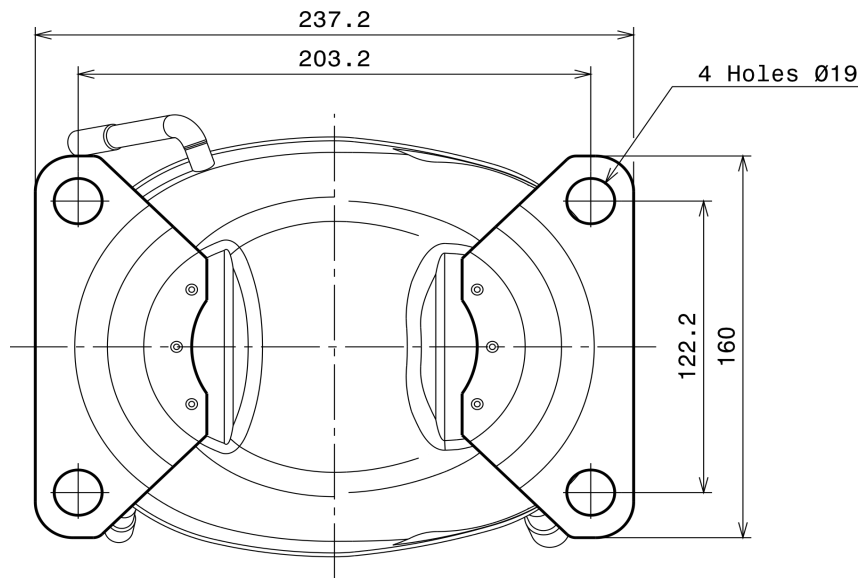
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (NS Range)



Technical Data Sheet

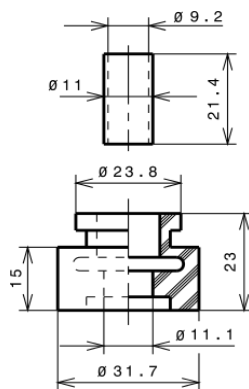
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (203.2x122.2 net)



SOA

SOA R404A HBP

