

Technical Data Sheet

Compressor model **MX18TB**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	18,40 cm ³	Nominal Power	7/8 hp
Refrigerant	R404A	Diameter	34,93 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,20 mm	Voltage range	187-255 V
Expansion	Capillar/Valve	Net Weight	16,00 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	500 cm ³	Locked Rotor Amps (LRA)	29,50 A
				Main W. resist. at 25°C	2,09 Ω
				Start W. resist. at 25°C	7,95 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	2.330 kCal/h	2.143 W
COP	2,18 W/W	1,76 W/W
EER	1,87 kCal/Wh	1,52 kCal/Wh
Input Power	1.245 W	1.219 W
Current	6,50 A	6,37 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (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	47- 56 µF 330 V		
Run capacitor	16 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	MRA38128	T0535	
Current	17,00 A	17,00 A	
Time check	7,5-14 seg	7,5-14 seg	
Disc temp. (Open/Close)	105,00 / 52,00 °C	105,00 / 52,00 °C	

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	775	684	4,04	1,32	1,13
40	-20	1.009	759	4,33	1,55	1,33
40	-15	1.282	832	4,63	1,79	1,54
40	-10	1.594	901	4,92	2,06	1,77
40	-5	1.944	968	5,21	2,34	2,01
40	0	2.332	1.031	5,49	2,63	2,26
40	5	2.760	1.092	5,77	2,94	2,53
40	7,2	2.960	1.118	5,89	3,08	2,65
40	10	3.226	1.149	6,04	3,26	2,81

45	-25	700	680	4,03	1,20	1,03
45	-20	913	763	4,35	1,39	1,20
45	-15	1.165	842	4,67	1,61	1,38
45	-10	1.456	919	4,99	1,84	1,58
45	-5	1.785	993	5,32	2,09	1,80
45	0	2.153	1.064	5,64	2,35	2,02
45	5	2.559	1.131	5,95	2,63	2,26
45	7,2	2.750	1.160	6,09	2,76	2,37
45	10	3.004	1.196	6,26	2,92	2,51

50	-25	625	677	4,01	1,07	0,92
50	-20	817	766	4,36	1,24	1,07
50	-15	1.048	853	4,72	1,43	1,23
50	-10	1.318	937	5,07	1,64	1,41
50	-5	1.626	1.018	5,43	1,86	1,60
50	0	1.973	1.096	5,78	2,09	1,80
50	5	2.358	1.171	6,14	2,34	2,01
50	7,2	2.540	1.203	6,29	2,46	2,11
50	10	2.782	1.242	6,49	2,60	2,24

55	-25	550	673	4,00	0,95	0,82
55	-20	721	770	4,38	1,09	0,94
55	-15	931	864	4,76	1,25	1,08
55	-10	1.180	955	5,15	1,44	1,24
55	-5	1.467	1.043	5,54	1,64	1,41
55	0	1.793	1.128	5,93	1,85	1,59
55	5	2.157	1.210	6,33	2,07	1,78
55	7,2	2.330	1.245	6,50	2,18	1,87
55	10	2.560	1.289	6,72	2,31	1,99

60	-25	475	670	3,99	0,83	0,71
60	-20	625	774	4,39	0,94	0,81
60	-15	814	875	4,81	1,08	0,93
60	-10	1.042	973	5,23	1,25	1,07
60	-5	1.308	1.068	5,66	1,42	1,22
60	0	1.613	1.160	6,09	1,62	1,39
60	5	1.957	1.249	6,52	1,82	1,57
60	7,2	2.120	1.288	6,71	1,92	1,65
60	10	2.339	1.335	6,96	2,04	1,75

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	812	684	4,04	1,19	1,03
40	-20	1.064	759	4,33	1,40	1,21
40	-15	1.353	832	4,63	1,63	1,41
40	-10	1.681	901	4,92	1,86	1,61
40	-5	2.045	968	5,21	2,11	1,83
40	0	2.447	1.031	5,49	2,37	2,05
40	5	2.887	1.092	5,77	2,64	2,28
40	7,2	3.092	1.118	5,89	2,77	2,39
40	10	3.364	1.149	6,04	2,93	2,53

45	-25	725	680	4,03	1,07	0,92
45	-20	950	763	4,35	1,25	1,08
45	-15	1.213	842	4,67	1,44	1,24
45	-10	1.513	919	4,99	1,65	1,42
45	-5	1.851	993	5,32	1,86	1,61
45	0	2.226	1.064	5,64	2,09	1,81
45	5	2.639	1.131	5,95	2,33	2,02
45	7,2	2.832	1.160	6,09	2,44	2,11
45	10	3.089	1.196	6,26	2,58	2,23

50	-25	638	677	4,01	0,94	0,81
50	-20	836	766	4,36	1,09	0,94
50	-15	1.072	853	4,72	1,26	1,09
50	-10	1.346	937	5,07	1,44	1,24
50	-5	1.657	1.018	5,43	1,63	1,41
50	0	2.005	1.096	5,78	1,83	1,58
50	5	2.391	1.171	6,14	2,04	1,76
50	7,2	2.573	1.203	6,29	2,14	1,85
50	10	2.814	1.242	6,49	2,27	1,96

55	-25	551	673	4,00	0,82	0,71
55	-20	723	770	4,38	0,94	0,81
55	-15	932	864	4,76	1,08	0,93
55	-10	1.178	955	5,15	1,23	1,07
55	-5	1.463	1.043	5,54	1,40	1,21
55	0	1.784	1.128	5,93	1,58	1,37
55	5	2.143	1.210	6,33	1,77	1,53
55	7,2	2.313	1.245	6,50	1,86	1,61
55	10	2.540	1.289	6,72	1,97	1,70

60	-25	464	670	3,99	0,69	0,60
60	-20	609	774	4,39	0,79	0,68
60	-15	791	875	4,81	0,90	0,78
60	-10	1.011	973	5,23	1,04	0,90
60	-5	1.268	1.068	5,66	1,19	1,03
60	0	1.563	1.160	6,09	1,35	1,16
60	5	1.896	1.249	6,52	1,52	1,31
60	7,2	2.054	1.288	6,71	1,60	1,38
60	10	2.265	1.335	6,96	1,70	1,47

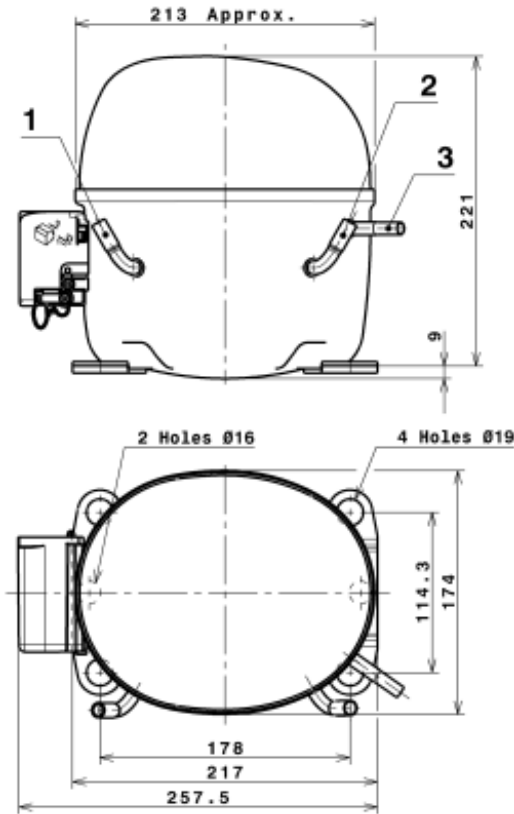
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4.220,8136392240	773,5843564929	3,7957171746	48,638987342914
2	127,1818913887	0,9775241947	-0,0067569454	1,6879547101693
3	-45,9665169863	6,4428571429	0,0388198758	-0,20964181416667
4	0,7093589286	-0,0602340026	0,0000565747	0,019615270004919
5	-1,1394065704	0,2857142857	0,0015527950	-0,0025743686763236

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
----------	---

Technical Data Sheet

COMPRESSOR DIMENSIONS

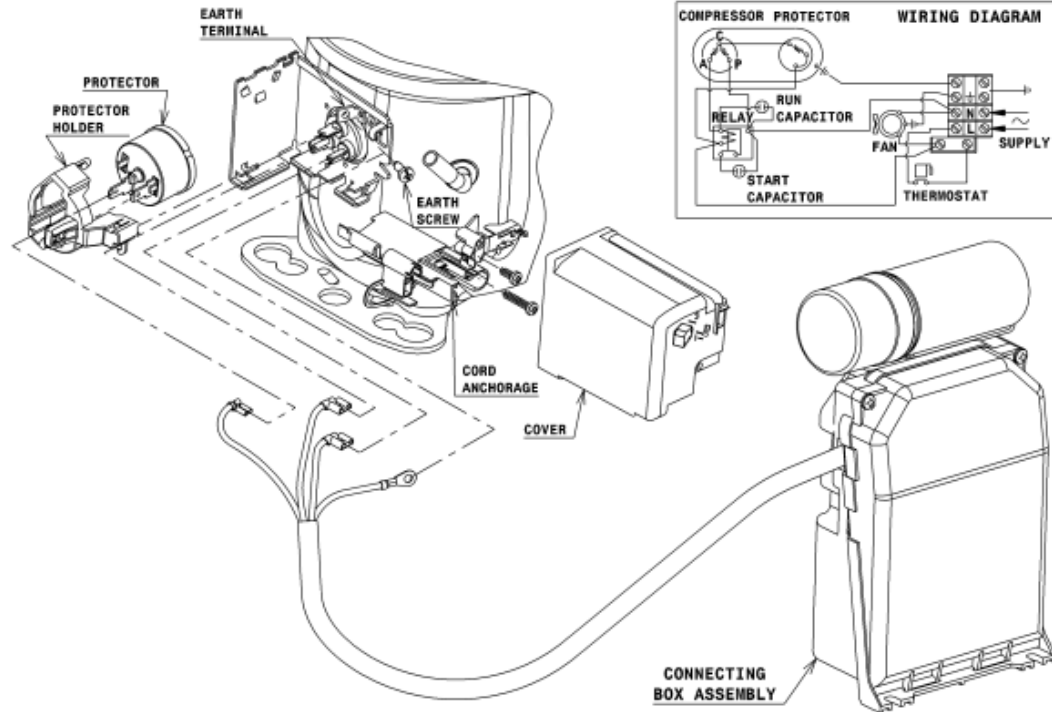


DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Service	9,7 mm
2 Suction	9,7 mm
3 Discharge	6,5 mm

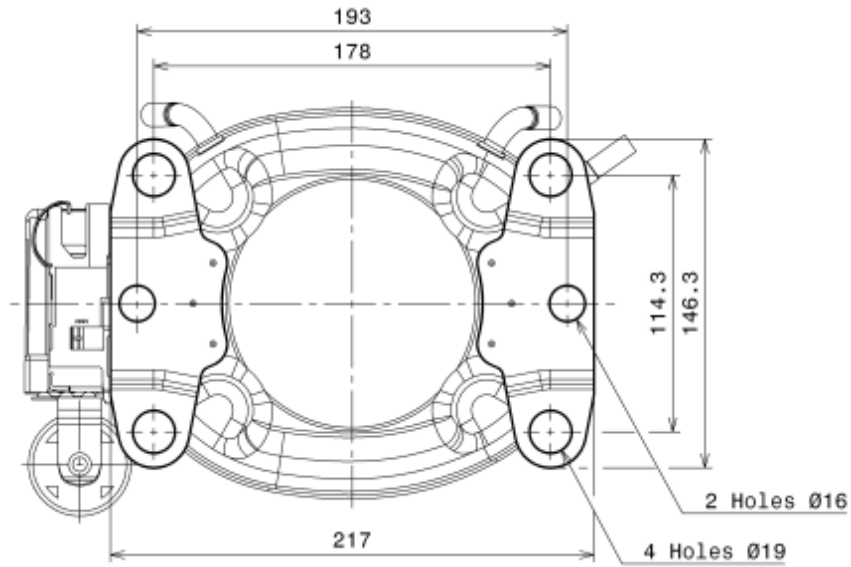
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



Technical Data Sheet

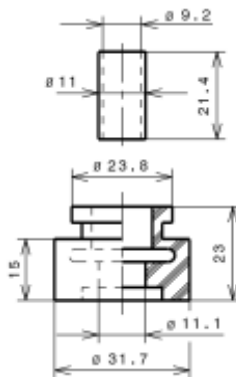
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (178x114.3 net)



SOA

SOA R404A HMBP

