

Technical Data Sheet

Compressor model **MX18TGa**
Voltage **200-220/220-230V 50/60Hz ~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	200-220V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,20 mm	Voltage range	180-242 V
Expansion	Capillar/Valve	Net Weight	16,24 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	500 cm ³	Locked Rotor Amps (LRA)	31,50 A
				Max. Cont. Current (MCC)	10,50 A
				Main W. resist. at 25°C	2,34 Ω
				Start W. resist. at 25°C	7,22 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	6,80 A	6,65 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	88-108 µF 330 V			
Run capacitor	20 µF 420 V			
Relay	Option 1	Option 2		
Reference	2014 180. + NTC15Î©	QLZ 16.7A + NTC15Î©		
Pick-Up	16.7 A	16.7 A		
Drop-Out	14 A	14 A		
Protector	Option 1			
Reference	T0257			
Current	24,00 A			
Time check	6,0-16 seg			
Disc temp. (Open/Close)	120,00 / 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	3,94	1,32	1,13
40	-20	1.009	759	4,27	1,55	1,33
40	-15	1.282	832	4,60	1,79	1,54
40	-10	1.594	901	4,93	2,06	1,77
40	-5	1.944	968	5,26	2,34	2,01
40	0	2.332	1.031	5,60	2,63	2,26
40	5	2.760	1.092	5,92	2,94	2,53
40	7,2	2.960	1.118	6,06	3,08	2,65
40	10	3.226	1.149	6,24	3,26	2,81

45	-25	700	680	3,93	1,20	1,03
45	-20	913	763	4,29	1,39	1,20
45	-15	1.165	842	4,65	1,61	1,38
45	-10	1.456	919	5,02	1,84	1,58
45	-5	1.785	993	5,39	2,09	1,80
45	0	2.153	1.064	5,77	2,35	2,02
45	5	2.559	1.131	6,14	2,63	2,26
45	7,2	2.750	1.160	6,30	2,76	2,37
45	10	3.004	1.196	6,51	2,92	2,51

50	-25	625	677	3,91	1,07	0,92
50	-20	817	766	4,30	1,24	1,07
50	-15	1.048	853	4,70	1,43	1,23
50	-10	1.318	937	5,11	1,64	1,41
50	-5	1.626	1.018	5,52	1,86	1,60
50	0	1.973	1.096	5,94	2,09	1,80
50	5	2.358	1.171	6,36	2,34	2,01
50	7,2	2.540	1.203	6,55	2,46	2,11
50	10	2.782	1.242	6,78	2,60	2,24

55	-25	550	673	3,90	0,95	0,82
55	-20	721	770	4,32	1,09	0,94
55	-15	931	864	4,75	1,25	1,08
55	-10	1.180	955	5,20	1,44	1,24
55	-5	1.467	1.043	5,66	1,64	1,41
55	0	1.793	1.128	6,12	1,85	1,59
55	5	2.157	1.210	6,59	2,07	1,78
55	7,2	2.330	1.245	6,80	2,18	1,87
55	10	2.560	1.289	7,07	2,31	1,99

60	-25	475	670	3,89	0,83	0,71
60	-20	625	774	4,34	0,94	0,81
60	-15	814	875	4,80	1,08	0,93
60	-10	1.042	973	5,29	1,25	1,07
60	-5	1.308	1.068	5,79	1,42	1,22
60	0	1.613	1.160	6,30	1,62	1,39
60	5	1.957	1.249	6,83	1,82	1,57
60	7,2	2.120	1.288	7,06	1,92	1,65
60	10	2.339	1.335	7,35	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	687	3,96	1,18	1,02
40	-20	1.064	763	4,29	1,39	1,20
40	-15	1.353	837	4,62	1,62	1,40
40	-10	1.681	907	4,96	1,85	1,60
40	-5	2.045	974	5,30	2,10	1,81
40	0	2.447	1.038	5,63	2,36	2,04
40	5	2.887	1.100	5,97	2,62	2,27
40	7,2	3.092	1.126	6,11	2,75	2,37
40	10	3.364	1.159	6,29	2,90	2,51

45	-25	725	684	3,95	1,06	0,92
45	-20	950	767	4,31	1,24	1,07
45	-15	1.213	847	4,67	1,43	1,24
45	-10	1.513	925	5,05	1,64	1,41
45	-5	1.851	999	5,43	1,85	1,60
45	0	2.226	1.071	5,81	2,08	1,80
45	5	2.639	1.140	6,19	2,32	2,00
45	7,2	2.832	1.169	6,35	2,42	2,09
45	10	3.089	1.205	6,57	2,56	2,21

50	-25	638	680	3,93	0,94	0,81
50	-20	836	771	4,32	1,09	0,94
50	-15	1.072	858	4,73	1,25	1,08
50	-10	1.346	943	5,14	1,43	1,23
50	-5	1.657	1.025	5,56	1,62	1,40
50	0	2.005	1.103	5,99	1,82	1,57
50	5	2.391	1.179	6,41	2,03	1,75
50	7,2	2.573	1.212	6,60	2,12	1,83
50	10	2.814	1.252	6,84	2,25	1,94

55	-25	551	677	3,92	0,81	0,70
55	-20	723	774	4,34	0,93	0,81
55	-15	932	869	4,78	1,07	0,93
55	-10	1.178	961	5,23	1,23	1,06
55	-5	1.463	1.050	5,69	1,39	1,20
55	0	1.784	1.136	6,17	1,57	1,36
55	5	2.143	1.219	6,65	1,76	1,52
55	7,2	2.313	1.255	6,86	1,84	1,59
55	10	2.540	1.299	7,13	1,96	1,69

60	-25	464	673	3,90	0,69	0,60
60	-20	609	778	4,36	0,78	0,68
60	-15	791	880	4,83	0,90	0,78
60	-10	1.011	979	5,32	1,03	0,89
60	-5	1.268	1.075	5,83	1,18	1,02
60	0	1.563	1.168	6,35	1,34	1,16
60	5	1.896	1.259	6,88	1,51	1,30
60	7,2	2.054	1.297	7,12	1,58	1,37
60	10	2.265	1.346	7,42	1,68	1,45

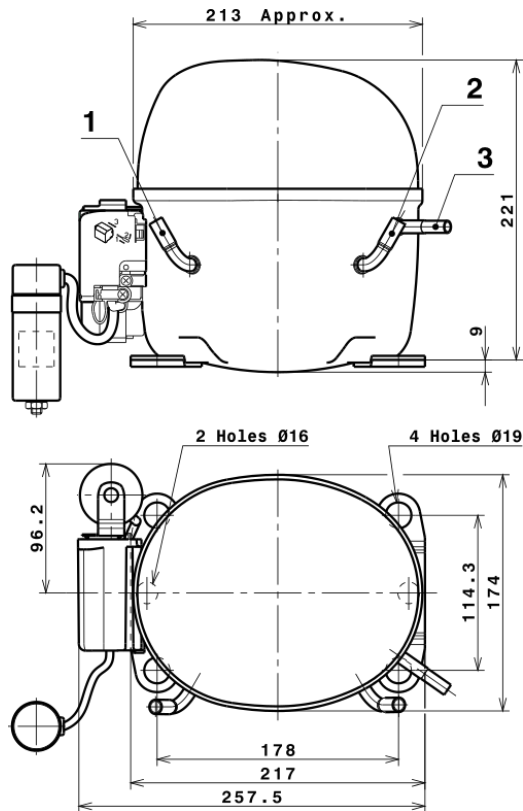
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4,220,8136392240	801,5486945211	4,1276045192	81,678773219533
2	127,1818913887	1,5668344883	0,0068986984	2,8345588078294
3	-45,9665169863	6,7171431916	0,0406120692	-0,35204857527005
4	0,7093589286	-0,0475990012	0,0003146778	0,032939649402571
5	-1,1394065704	0,2975172059	0,0017466548	-0,0043231014209744

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

COMPRESSOR DIMENSIONS

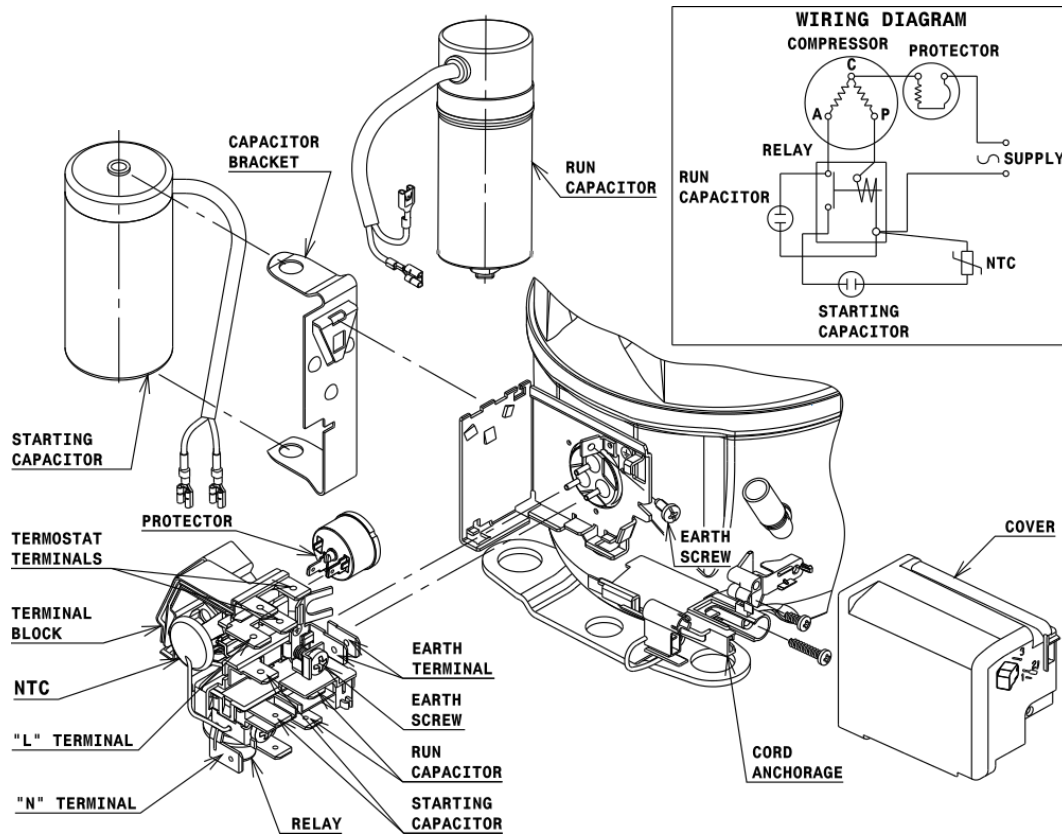


DESIGNATION INTERNAL DIAM.

1	Service	9,7 mm
2	Suction	9,7 mm
3	Discharge	6,5 mm

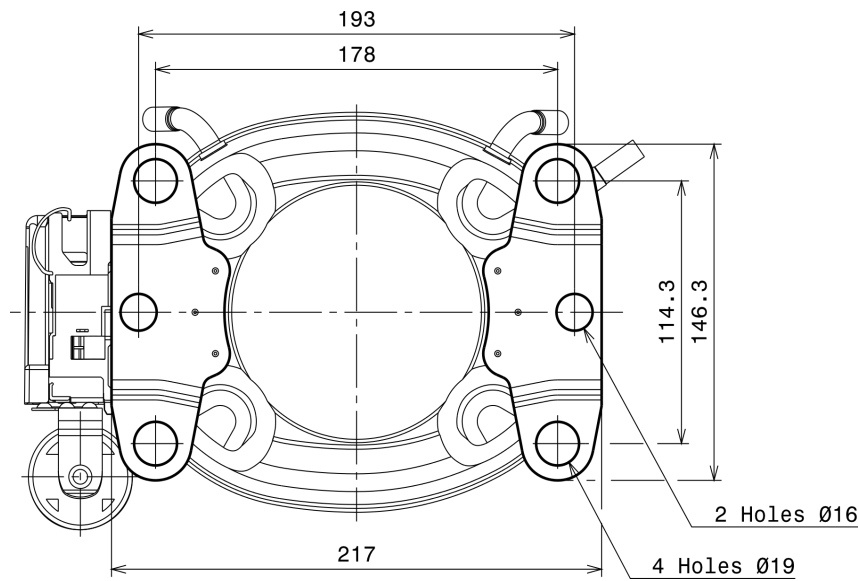
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (X range)



Technical Data Sheet

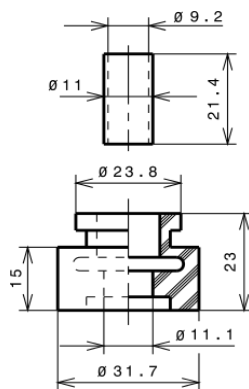
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (178x114.3 net)



SOA

SOA R404A HMBP

