

Technical Data Sheet

Compressor model **MX18TGa**
Voltage **200-220/220-230V 50/60Hz ~1**
Refrigerant **R404A**
Compressor status

APPLICATION		COMPRESSOR		MOTOR	
Application	High-Medium Back Pressure	Displacement	18,40 cm ³	Voltage/Frequency	220-230V 60Hz
Refrigerant	R404A	Diameter	34,93 mm	Voltage range	198-253 V
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,20 mm	Type	CSR
Expansion	Capillar/Valve	Net Weight	16,24 Kg	Phase number	1 PH
Comp. Cooling	Fan cooled	Oil type	ISO VG 46 ESTER	Locked Rotor Amps (LRA)	30,50 A
Max. ambient temp.	43,0 °C	Oil charge	500 cm ³	Max. Cont. Current (MCC)	10,50 A
		HP	7/8 hp	Main W. resist. at 25°C	2,34 Ω
				Start W. resist. at 25°C	7,22 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	2.726 kCal/h	2.507 W
COP	2,15 W/W	1,74 W/W
EER	1,85 kCal/Wh	1,50 kCal/Wh
Input Power	1.475 W	1.443 W
Current	6,60 A	6,45 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	230 V 60 Hz	230 V 60 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	906	805	3,60	1,31	1,12
40	-20	1.179	893	3,97	1,54	1,32
40	-15	1.498	978	4,33	1,78	1,53
40	-10	1.862	1.060	4,69	2,04	1,76
40	-5	2.271	1.140	5,05	2,32	1,99
40	0	2.726	1.218	5,40	2,60	2,24
40	5	3.225	1.293	5,74	2,90	2,49
40	7,2	3.460	1.325	5,89	3,04	2,61
40	10	3.770	1.365	6,08	3,21	2,76

45	-25	818	805	3,60	1,18	1,02
45	-20	1.067	900	4,00	1,38	1,19
45	-15	1.362	993	4,40	1,59	1,37
45	-10	1.701	1.083	4,79	1,83	1,57
45	-5	2.086	1.171	5,19	2,07	1,78
45	0	2.516	1.257	5,57	2,33	2,00
45	5	2.992	1.339	5,96	2,60	2,23
45	7,2	3.215	1.375	6,12	2,72	2,34
45	10	3.512	1.420	6,34	2,88	2,47

50	-25	731	805	3,60	1,06	0,91
50	-20	955	908	4,03	1,22	1,05
50	-15	1.225	1.009	4,47	1,41	1,21
50	-10	1.541	1.107	4,90	1,62	1,39
50	-5	1.901	1.202	5,33	1,84	1,58
50	0	2.307	1.295	5,75	2,07	1,78
50	5	2.758	1.386	6,18	2,31	1,99
50	7,2	2.971	1.425	6,36	2,42	2,08
50	10	3.254	1.474	6,60	2,57	2,21

55	-25	643	805	3,60	0,93	0,80
55	-20	843	916	4,07	1,07	0,92
55	-15	1.089	1.024	4,53	1,24	1,06
55	-10	1.380	1.130	5,00	1,42	1,22
55	-5	1.716	1.233	5,47	1,62	1,39
55	0	2.097	1.334	5,93	1,83	1,57
55	5	2.524	1.433	6,40	2,05	1,76
55	7,2	2.726	1.475	6,60	2,15	1,85
55	10	2.996	1.528	6,86	2,28	1,96

60	-25	555	805	3,60	0,80	0,69
60	-20	732	924	4,10	0,92	0,79
60	-15	953	1.040	4,60	1,07	0,92
60	-10	1.219	1.153	5,10	1,23	1,06
60	-5	1.531	1.264	5,61	1,41	1,21
60	0	1.888	1.373	6,11	1,60	1,38
60	5	2.290	1.479	6,62	1,80	1,55
60	7,2	2.482	1.525	6,84	1,89	1,63
60	10	2.738	1.583	7,12	2,01	1,73

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	948	810	3,62	1,17	1,01
40	-20	1.243	898	3,99	1,38	1,20
40	-15	1.581	983	4,36	1,61	1,39
40	-10	1.963	1.067	4,72	1,84	1,59
40	-5	2.390	1.148	5,08	2,08	1,80
40	0	2.860	1.226	5,43	2,33	2,01
40	5	3.374	1.302	5,78	2,59	2,24
40	7,2	3.614	1.335	5,94	2,71	2,34
40	10	3.931	1.376	6,13	2,86	2,47

45	-25	847	810	3,62	1,05	0,90
45	-20	1.110	905	4,02	1,23	1,06
45	-15	1.417	999	4,42	1,42	1,23
45	-10	1.768	1.090	4,82	1,62	1,40
45	-5	2.163	1.179	5,22	1,84	1,59
45	0	2.602	1.265	5,61	2,06	1,78
45	5	3.085	1.349	6,00	2,29	1,98
45	7,2	3.311	1.386	6,17	2,39	2,06
45	10	3.612	1.431	6,39	2,52	2,18

50	-25	746	810	3,62	0,92	0,80
50	-20	978	913	4,05	1,07	0,92
50	-15	1.253	1.015	4,49	1,24	1,07
50	-10	1.573	1.114	4,93	1,41	1,22
50	-5	1.937	1.210	5,36	1,60	1,38
50	0	2.345	1.304	5,79	1,80	1,55
50	5	2.796	1.396	6,22	2,00	1,73
50	7,2	3.009	1.436	6,41	2,10	1,81
50	10	3.292	1.486	6,65	2,22	1,91

55	-25	644	810	3,62	0,80	0,69
55	-20	845	921	4,09	0,92	0,79
55	-15	1.090	1.030	4,56	1,06	0,91
55	-10	1.378	1.137	5,03	1,21	1,05
55	-5	1.711	1.241	5,50	1,38	1,19
55	0	2.087	1.344	5,98	1,55	1,34
55	5	2.507	1.443	6,45	1,74	1,50
55	7,2	2.706	1.486	6,65	1,82	1,57
55	10	2.972	1.541	6,92	1,93	1,67

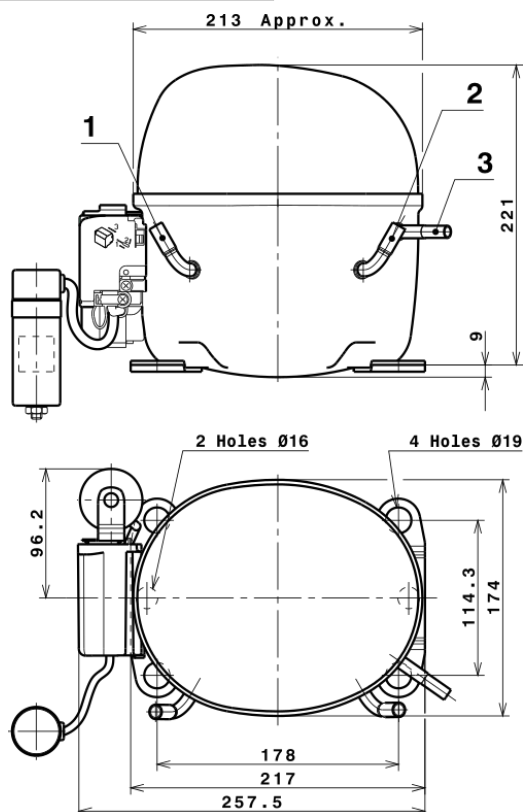
60	-25	543	810	3,62	0,67	0,58
60	-20	712	929	4,12	0,77	0,66
60	-15	926	1.046	4,63	0,89	0,76
60	-10	1.183	1.161	5,14	1,02	0,88
60	-5	1.484	1.273	5,65	1,17	1,01
60	0	1.830	1.383	6,16	1,32	1,14
60	5	2.219	1.490	6,67	1,49	1,29
60	7,2	2.404	1.537	6,90	1,56	1,35
60	10	2.652	1.595	7,19	1,66	1,44

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4.927,1246174207	940,0466784944	4,0263213393	95,214325908351
2	148,5137118744	3,5874490924	0,0151732766	3,3068629853397
3	-53,5833891800	8,0921328775	0,0389852892	-0,40577664694075
4	0,8309995577	-0,0343287218	0,0000839055	0,038577259208013
5	-1,3272942409	0,3236853151	0,0015594116	-0,0048645310986899

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

COMPRESSOR DIMENSIONS

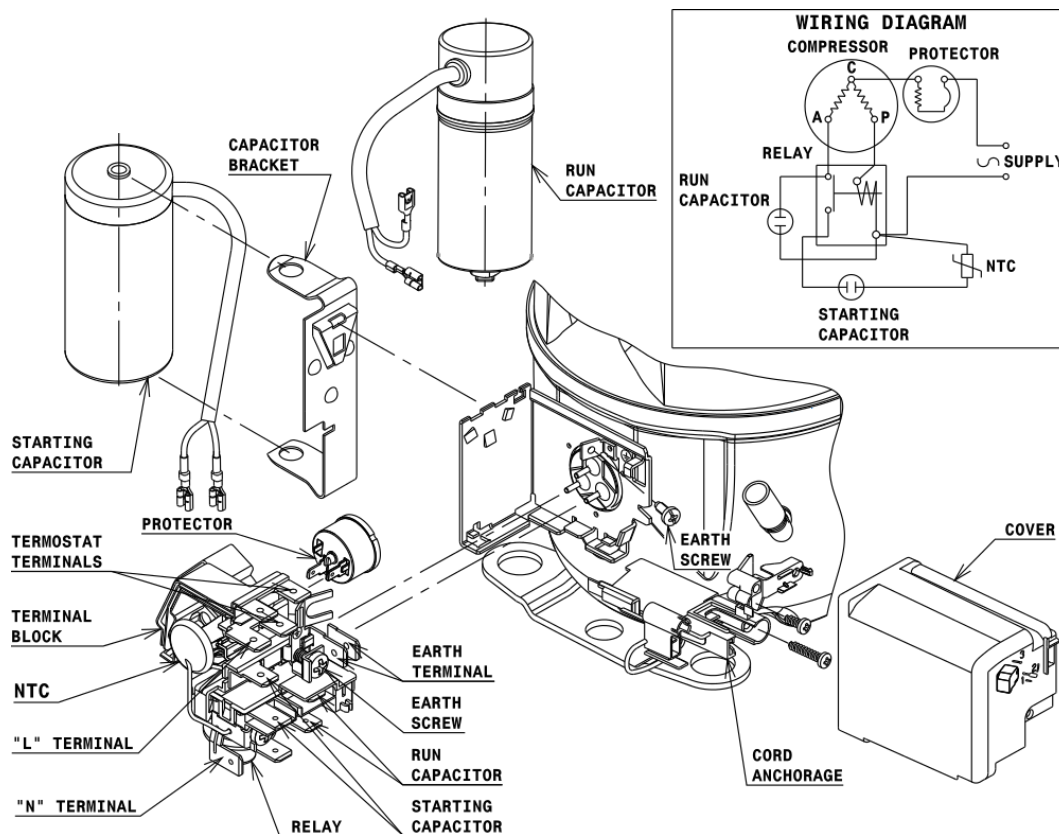


DESIGNATION INTERNAL DIAM.

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

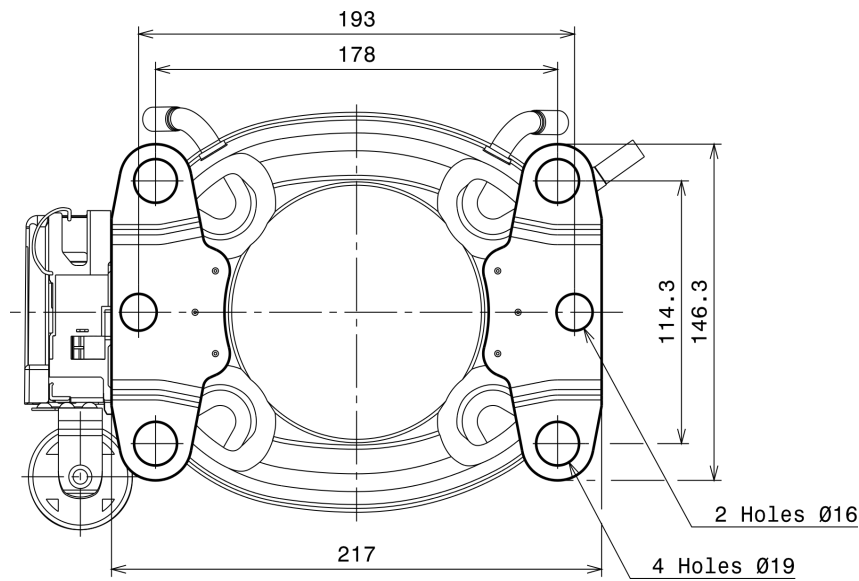
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



Technical Data Sheet

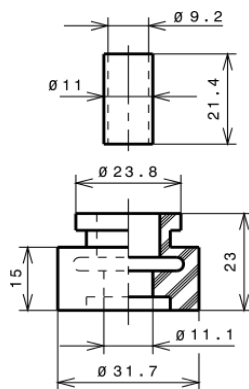
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (178x114.3 net)



SOA

SOA R404A HMBP

