

Technical Data Sheet

Compressor model **MLY60RGa**
 Voltage **200-220/220-230V 50/60Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,98 cm ³	Nominal Power	1/4 hp
Refrigerant	R404A	Diameter	20,88 mm	Voltage/Frequency	200-220V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	180-242 V
Expansion	Capillar/Valve	Net Weight	10,24 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	295 cm ³	Locked Rotor Amps (LRA)	12,70 A
				Max. Cont. Current (MCC)	3,70 A
				Main W. resist. at 25°C	6,15 Ω
				Start W. resist. at 25°C	31,10 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	832 kCal/h	765 W
COP	2,29 W/W	1,85 W/W
EER	1,97 kCal/Wh	1,60 kCal/Wh
Input Power	422 W	413 W
Current	2,40 A	2,36 A

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			
Relay	Option 1			
Reference	2014 138.			
Pick-Up	6,10 A			
Drop-Out	5,20 A			
Protector	Option 1			
Reference	T0266			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	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	278	223	1,65	1,45	1,25
40	-20	350	245	1,72	1,66	1,42
40	-15	436	267	1,79	1,90	1,63
40	-10	537	288	1,86	2,17	1,87
40	-5	653	308	1,93	2,47	2,12
40	0	784	327	2,00	2,79	2,40
40	5	930	345	2,08	3,13	2,69
40	7,2	999	353	2,11	3,29	2,83
40	10	1.090	363	2,15	3,50	3,01

45	-25	257	225	1,66	1,33	1,14
45	-20	323	251	1,74	1,50	1,29
45	-15	404	275	1,82	1,71	1,47
45	-10	500	299	1,90	1,94	1,67
45	-5	611	323	1,99	2,20	1,89
45	0	736	345	2,08	2,48	2,13
45	5	877	367	2,16	2,78	2,39
45	7,2	943	376	2,20	2,92	2,51
45	10	1.032	388	2,25	3,10	2,66

50	-25	236	227	1,66	1,21	1,04
50	-20	297	256	1,75	1,35	1,16
50	-15	373	284	1,85	1,53	1,31
50	-10	463	311	1,95	1,73	1,49
50	-5	568	338	2,05	1,96	1,68
50	0	689	363	2,15	2,20	1,89
50	5	823	388	2,25	2,47	2,12
50	7,2	888	399	2,30	2,59	2,22
50	10	973	412	2,36	2,74	2,36

55	-25	215	229	1,67	1,09	0,94
55	-20	271	261	1,77	1,20	1,04
55	-15	341	292	1,88	1,36	1,17
55	-10	426	323	1,99	1,53	1,32
55	-5	526	353	2,11	1,73	1,49
55	0	641	382	2,22	1,95	1,68
55	5	770	410	2,35	2,19	1,88
55	7,2	832	422	2,40	2,29	1,97
55	10	915	437	2,47	2,43	2,09

60	-25	194	231	1,68	0,98	0,84
60	-20	244	266	1,79	1,07	0,92
60	-15	309	301	1,91	1,19	1,03
60	-10	389	335	2,03	1,35	1,16
60	-5	484	368	2,17	1,53	1,31
60	0	593	400	2,30	1,72	1,48
60	5	717	431	2,44	1,93	1,66
60	7,2	777	445	2,51	2,03	1,74
60	10	856	462	2,59	2,16	1,85

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	291	224	1,66	1,30	1,12
40	-20	369	247	1,73	1,50	1,29
40	-15	461	268	1,80	1,72	1,48
40	-10	568	289	1,87	1,96	1,69
40	-5	688	310	1,94	2,22	1,92
40	0	824	329	2,01	2,50	2,16
40	5	973	348	2,09	2,80	2,42
40	7,2	1.044	356	2,12	2,93	2,54
40	10	1.138	366	2,16	3,11	2,69

45	-25	266	226	1,66	1,18	1,02
45	-20	336	252	1,74	1,33	1,15
45	-15	421	277	1,83	1,52	1,31
45	-10	520	301	1,91	1,73	1,49
45	-5	634	325	2,00	1,95	1,69
45	0	762	347	2,08	2,19	1,89
45	5	904	369	2,17	2,45	2,11
45	7,2	971	379	2,21	2,56	2,21
45	10	1.061	391	2,26	2,72	2,35

50	-25	241	228	1,67	1,05	0,91
50	-20	304	257	1,76	1,18	1,02
50	-15	381	286	1,85	1,33	1,15
50	-10	473	313	1,95	1,51	1,30
50	-5	579	340	2,05	1,70	1,47
50	0	700	366	2,16	1,91	1,65
50	5	835	391	2,26	2,13	1,84
50	7,2	899	402	2,31	2,23	1,93
50	10	984	416	2,37	2,37	2,05

55	-25	215	230	1,67	0,94	0,81
55	-20	271	263	1,78	1,03	0,89
55	-15	341	294	1,88	1,16	1,00
55	-10	425	325	2,00	1,31	1,13
55	-5	524	355	2,11	1,48	1,28
55	0	638	384	2,24	1,66	1,43
55	5	765	413	2,36	1,85	1,60
55	7,2	826	425	2,41	1,94	1,68
55	10	907	441	2,49	2,06	1,78

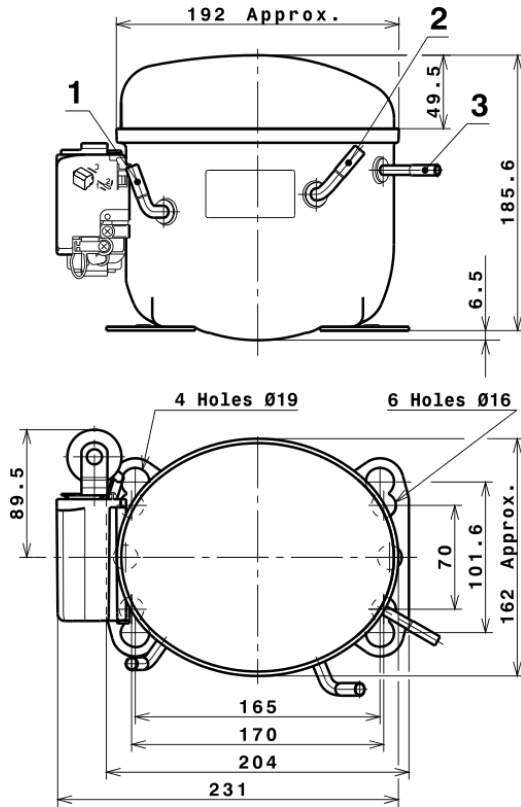
60	-25	190	232	1,68	0,82	0,71
60	-20	238	268	1,79	0,89	0,77
60	-15	301	303	1,92	0,99	0,86
60	-10	378	337	2,04	1,12	0,97
60	-5	470	370	2,18	1,27	1,10
60	0	576	403	2,31	1,43	1,23
60	5	696	435	2,46	1,60	1,38
60	7,2	753	448	2,52	1,68	1,45
60	10	831	466	2,60	1,78	1,54

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X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.328,9221870946	186,4758930556	1,3539576620	23,450639391041
2	40,4141448278	-1,3527677041	-0,0079473284	0,86422054460669
3	-13,1649711350	3,8144781261	0,0169327843	-0,021464573158107
4	0,2728776585	-0,0114369370	0,0001095031	0,012416969337748
5	-0,3196050862	0,1361039946	0,0006265442	0,0010146889982872

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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COMPRESSOR DIMENSIONS



DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

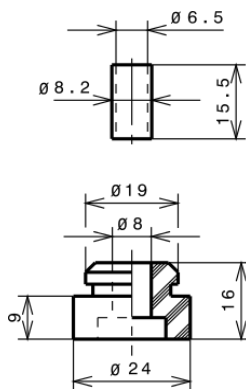
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

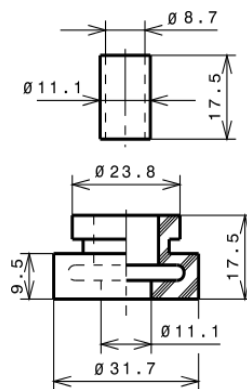
STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP

