

Technical Data Sheet

Compressor model **MLY12LGb**
 Voltage **200-220/230V 50/60Hz ~1**
 Refrigerant **R404A**

APPLICATION		COMPRESSOR		MOTOR	
Application	Low Back Pressure	Displacement	10,70 cm ³	Nominal Power	3/8 hp
Refrigerant	R404A	Diameter	25,40 mm	Voltage/Frequency	200-220V 50Hz
Evaporating Temp.	-40,0 °C to -10,0 °C	Stroke	21,11 mm	Voltage range	170-233 V
Expansion	Capillar/Valve	Net Weight	11,16 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	400 cm ³	Locked Rotor Amps (LRA)	22,00 A
				Max. Cont. Current (MCC)	4,60 A
				Main W. resist. at 25°C	3,73 Ω
				Start W. resist. at 25°C	17,04 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	499 kCal/h	394 W
COP	1,28 W/W	0,90 W/W
EER	1,10 kCal/Wh	0,78 kCal/Wh
Input Power	455 W	438 W
Current	2,72 A	2,66 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °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	10 μF 420 V			
Relay	Option 1			
Reference	2014 170. + NTC15Ω			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0267			
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	-40	229	330	2,31	0,81	0,69
40	-35	300	373	2,44	0,94	0,81
40	-30	392	415	2,58	1,10	0,94
40	-25	502	456	2,72	1,28	1,10
40	-23,3	544	470	2,77	1,35	1,16
40	-20	632	497	2,87	1,48	1,27
40	-15	781	536	3,02	1,69	1,46
40	-10	949	575	3,17	1,92	1,65

45	-40	216	313	2,26	0,80	0,69
45	-35	287	360	2,40	0,93	0,80
45	-30	378	405	2,55	1,08	0,93
45	-25	487	450	2,70	1,26	1,08
45	-23,3	529	465	2,76	1,32	1,14
45	-20	616	494	2,86	1,45	1,25
45	-15	765	537	3,02	1,66	1,42
45	-10	932	579	3,19	1,87	1,61

50	-40	204	297	2,21	0,80	0,69
50	-35	274	347	2,36	0,92	0,79
50	-30	364	396	2,52	1,07	0,92
50	-25	473	444	2,68	1,24	1,06
50	-23,3	514	460	2,74	1,30	1,12
50	-20	601	491	2,85	1,42	1,22
50	-15	748	538	3,02	1,62	1,39
50	-10	915	583	3,20	1,83	1,57

55	-40	191	280	2,16	0,79	0,68
55	-35	261	333	2,32	0,91	0,78
55	-30	350	386	2,49	1,05	0,91
55	-25	458	438	2,66	1,22	1,05
55	-23,3	499	455	2,72	1,28	1,10
55	-20	585	488	2,84	1,39	1,20
55	-15	732	538	3,03	1,58	1,36
55	-10	898	587	3,22	1,78	1,53

60	-40	179	264	2,11	0,79	0,68
60	-35	247	320	2,28	0,90	0,77
60	-30	336	376	2,45	1,04	0,89
60	-25	443	431	2,64	1,19	1,03
60	-23,3	484	450	2,70	1,25	1,08
60	-20	570	486	2,83	1,36	1,17
60	-15	716	539	3,03	1,55	1,33
60	-10	881	591	3,24	1,73	1,49

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	242	330	2,31	0,73	0,63
40	-35	330	373	2,44	0,88	0,76
40	-30	433	415	2,58	1,04	0,90
40	-25	553	456	2,72	1,21	1,05
40	-23,3	598	470	2,77	1,27	1,10
40	-20	689	497	2,87	1,39	1,20
40	-15	841	536	3,02	1,57	1,35
40	-10	1.009	575	3,17	1,75	1,52

45	-40	216	313	2,26	0,69	0,60
45	-35	295	360	2,40	0,82	0,71
45	-30	389	405	2,55	0,96	0,83
45	-25	500	450	2,70	1,11	0,96
45	-23,3	542	465	2,76	1,16	1,01
45	-20	627	494	2,86	1,27	1,10
45	-15	770	537	3,02	1,43	1,24
45	-10	929	579	3,19	1,60	1,39

50	-40	191	297	2,21	0,64	0,56
50	-35	260	347	2,36	0,75	0,65
50	-30	346	396	2,52	0,87	0,75
50	-25	447	444	2,68	1,01	0,87
50	-23,3	486	460	2,74	1,06	0,91
50	-20	565	491	2,85	1,15	0,99
50	-15	699	538	3,02	1,30	1,12
50	-10	849	583	3,20	1,46	1,26

55	-40	165	280	2,16	0,59	0,51
55	-35	225	333	2,32	0,68	0,58
55	-30	302	386	2,49	0,78	0,68
55	-25	394	438	2,66	0,90	0,78
55	-23,3	430	455	2,72	0,94	0,82
55	-20	503	488	2,84	1,03	0,89
55	-15	628	538	3,03	1,17	1,01
55	-10	768	587	3,22	1,31	1,13

60	-40	140	264	2,11	0,53	0,46
60	-35	191	320	2,28	0,60	0,51
60	-30	258	376	2,45	0,69	0,59
60	-25	341	431	2,64	0,79	0,68
60	-23,3	374	450	2,70	0,83	0,72
60	-20	441	486	2,83	0,91	0,78
60	-15	557	539	3,03	1,03	0,89
60	-10	688	591	3,24	1,16	1,01

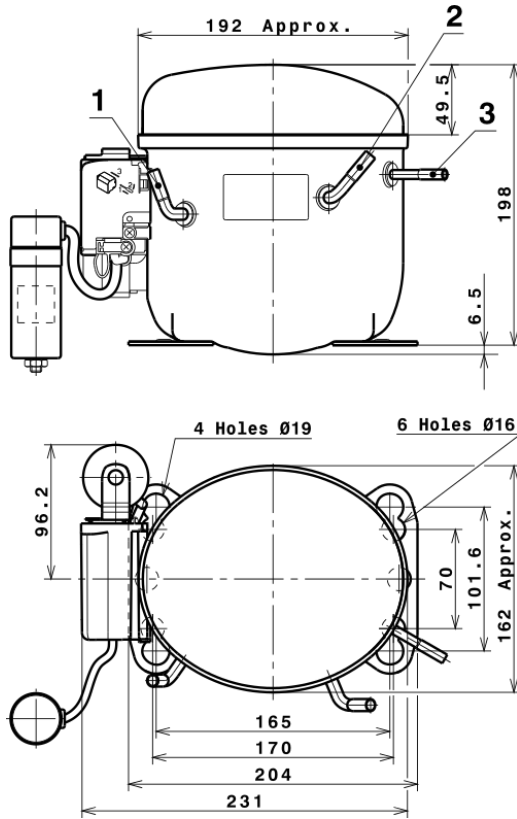
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.163,9949683357	579,8361062454	3,2867675317	43,811551383558
2	55,3089021139	2,0669427048	0,0202841860	1,3486642177834
3	-20,3982044216	2,2196561248	0,0077950696	-0,11424218845306
4	0,3048655767	-0,0159001947	0,0001564452	0,012066190659163
5	-0,3815043574	0,1398180383	0,0004439122	-0,0010941036172309

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	Suction	8,1 mm
2	Service	8,1 mm
3	Discharge	6,5 mm

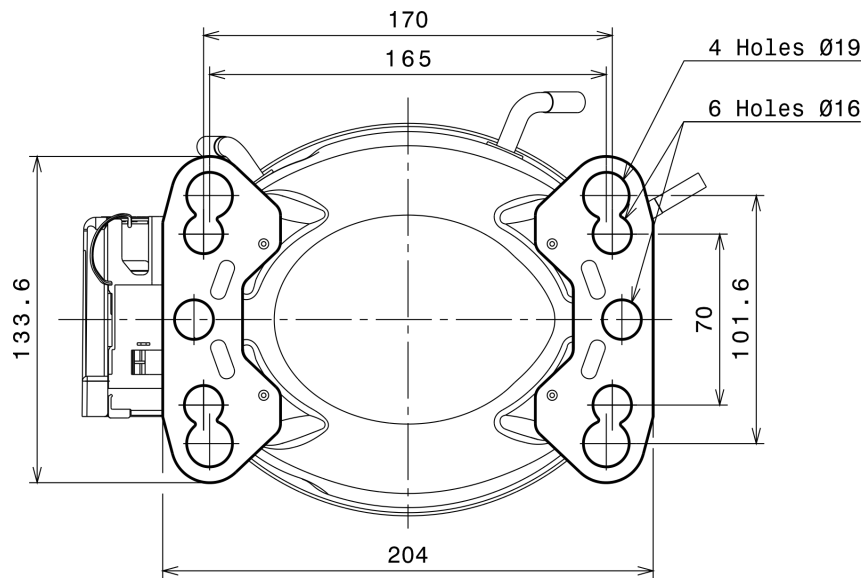
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (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 LBP

