Technical Data Sheet

ENGINEERING TOMORROW

Compressor model **MLY60LDb**

Voltage **115V 60Hz ~1**

Refrigerant **R404A**

APPLICATION

Application	Low Back Pressure
Refrigerant	R404A
Evaporating Temp.	-40,0 ºC to -10,0 ºC
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 ºC

COMPRESSOR

Displacement	5,98 cm³
Diameter	20,88 mm
Stroke	17,47 mm
Net Weight	10,50 Kg
Oil type	ISO VG 32 ESTER
Oil charge	345 cm³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	115V 60Hz
Voltage range	98-132 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	23,00 A
Max. Cont. Current (MCC)	6,50 A
Main W. resist. at 25ºC	1,78 Ω
Start W. resist. at 25ºC	5,20 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	328 kCal/h	259 W
COP	1,34 W/W	0,95 W/W
EER	1,15 kCal/Wh	0,82 kCal/Wh
Input Power	285 W	273 W
Current	2,90 A	2,81 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	LBP (B)	**LBP (A)**
Evaporating temp. (T_e)	-23,3 ºC	-25,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	32,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	32,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	32,0 ºC	32,0 ºC
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Run capacitor	15 µF 250 V			
Relay	Option 1			
Reference	2014 166. + NTC3Ω			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1	Option 2		
Reference	MRA38130	T0252		
Current	11,70 A	11,50 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 52,00 ºC	105,00 / 52,00 ºC		

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ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	154	188	2,24	0,96	0,82
40	-35	211	211	2,39	1,16	1,00
40	-30	279	237	2,56	1,37	1,18
40	-25	358	264	2,75	1,57	1,35
40	-23,3	387	274	2,82	1,64	1,41
40	-20	449	294	2,97	1,77	1,52
40	-15	551	326	3,20	1,96	1,69
40	-10	664	360	3,46	2,15	1,84
45	-40	142	183	2,21	0,90	0,78
45	-35	196	209	2,38	1,09	0,94
45	-30	262	237	2,56	1,28	1,10
45	-25	339	267	2,77	1,48	1,27
45	-23,3	368	278	2,85	1,54	1,32
45	-20	427	299	3,00	1,66	1,43
45	-15	527	334	3,26	1,84	1,58
45	-10	638	370	3,54	2,01	1,72
50	-40	130	179	2,18	0,85	0,73
50	-35	182	207	2,36	1,02	0,88
50	-30	245	237	2,57	1,20	1,03
50	-25	320	270	2,79	1,38	1,19
50	-23,3	348	281	2,87	1,44	1,24
50	-20	406	305	3,04	1,55	1,33
50	-15	503	341	3,32	1,72	1,47
50	-10	612	380	3,62	1,87	1,61
55	-40	118	174	2,15	0,79	0,68
55	-35	168	205	2,35	0,95	0,82
55	-30	229	238	2,57	1,12	0,96
55	-25	301	273	2,81	1,28	1,10
55	-23,3	328	285	2,90	1,34	1,15
55	-20	385	310	3,08	1,44	1,24
55	-15	480	349	3,38	1,60	1,37
55	-10	586	390	3,70	1,75	1,50
60	-40	106	170	2,12	0,73	0,63
60	-35	153	203	2,33	0,88	0,76
60	-30	212	238	2,57	1,04	0,89
60	-25	282	275	2,83	1,19	1,02
60	-23,3	308	289	2,93	1,24	1,07
60	-20	363	315	3,12	1,34	1,15
60	-15	456	356	3,43	1,49	1,28
60	-10	560	400	3,78	1,63	1,40

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	162	188	2,24	0,87	0,75
40	-35	229	211	2,39	1,08	0,94
40	-30	305	237	2,56	1,29	1,11
40	-25	390	264	2,75	1,48	1,27
40	-23,3	421	274	2,82	1,54	1,33
40	-20	485	294	2,97	1,65	1,42
40	-15	589	326	3,20	1,81	1,56
40	-10	703	360	3,46	1,95	1,69
45	-40	142	183	2,21	0,78	0,67
45	-35	201	209	2,38	0,96	0,83
45	-30	269	237	2,56	1,13	0,98
45	-25	346	267	2,77	1,30	1,12
45	-23,3	375	278	2,85	1,35	1,17
45	-20	433	299	3,00	1,45	1,25
45	-15	530	334	3,26	1,59	1,37
45	-10	636	370	3,54	1,72	1,48
50	-40	122	179	2,18	0,68	0,59
50	-35	173	207	2,36	0,84	0,72
50	-30	233	237	2,57	0,98	0,85
50	-25	303	270	2,79	1,12	0,97
50	-23,3	329	281	2,87	1,17	1,01
50	-20	382	305	3,04	1,25	1,08
50	-15	471	341	3,32	1,38	1,19
50	-10	569	380	3,62	1,50	1,29
55	-40	102	174	2,15	0,59	0,51
55	-35	145	205	2,35	0,71	0,61
55	-30	197	238	2,57	0,83	0,72
55	-25	259	273	2,81	0,95	0,82
55	-23,3	282	285	2,90	0,99	0,86
55	-20	330	310	3,08	1,07	0,92
55	-15	411	349	3,38	1,18	1,02
55	-10	501	390	3,70	1,29	1,11
60	-40	82	170	2,12	0,48	0,42
60	-35	117	203	2,33	0,58	0,50
60	-30	161	238	2,57	0,68	0,59
60	-25	215	275	2,83	0,78	0,68
60	-23,3	236	289	2,93	0,82	0,71
60	-20	279	315	3,12	0,89	0,77
60	-15	352	356	3,43	0,99	0,85
60	-10	434	400	3,78	1,09	0,94

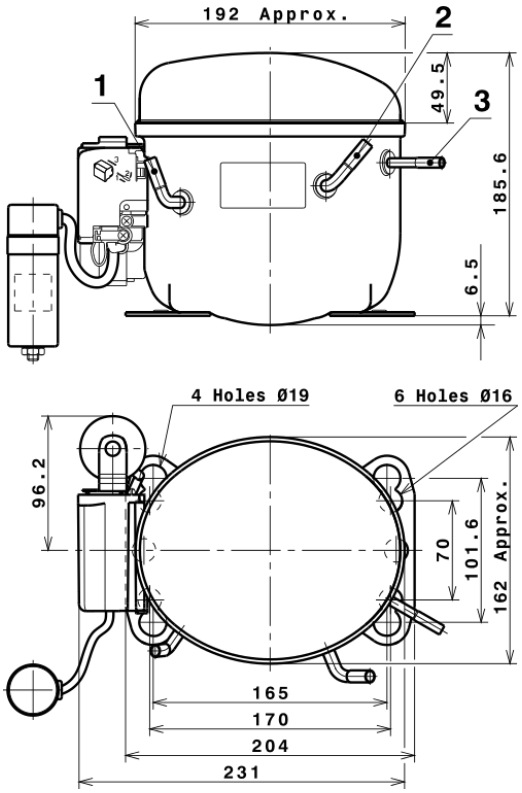
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.604,2524954406	325,0673536014	3,2210970843	34,299277556113
2	39,3588931095	4,2016222573	0,0399179092	0,97139529658056
3	-16,9136146998	3,0448947823	0,0239717819	-0,18210426470819
4	0,1793347951	0,0446537859	0,0005455381	0,0072057451596379
5	-0,3228670144	0,0991205428	0,0007460486	-0,0028700377924251

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

Technical Data Sheet

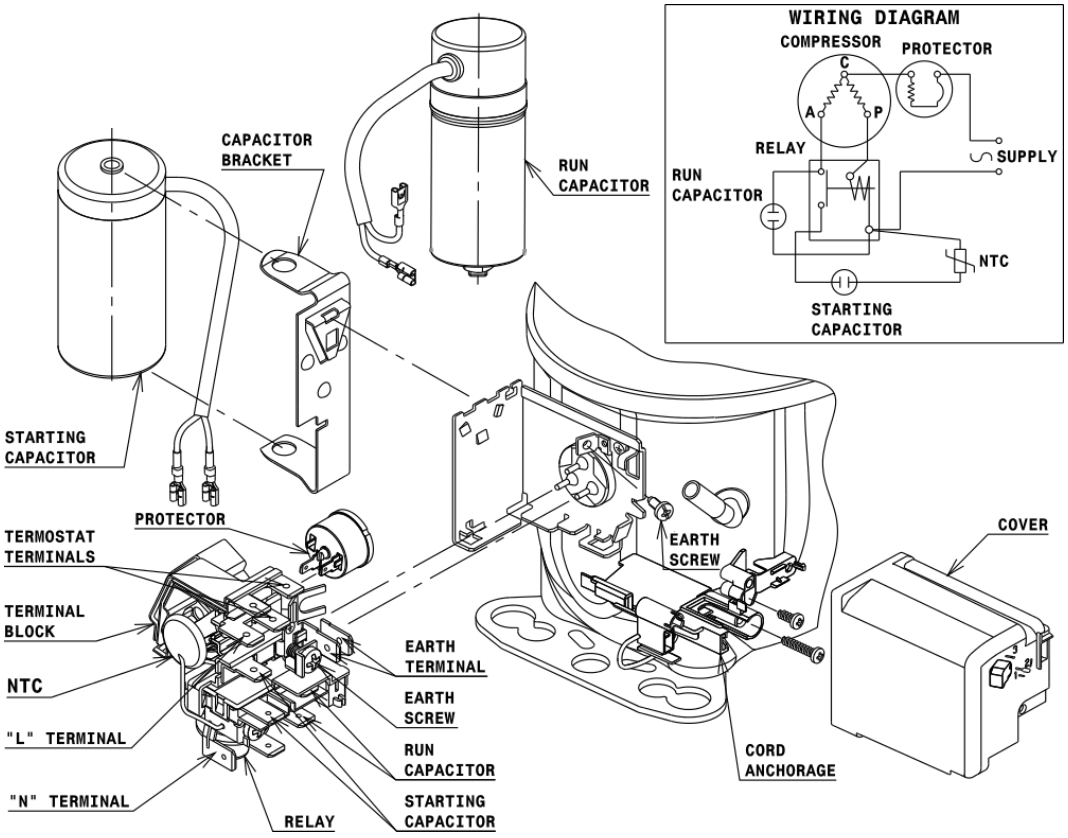
COMPRESSOR DIMENSIONS



	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

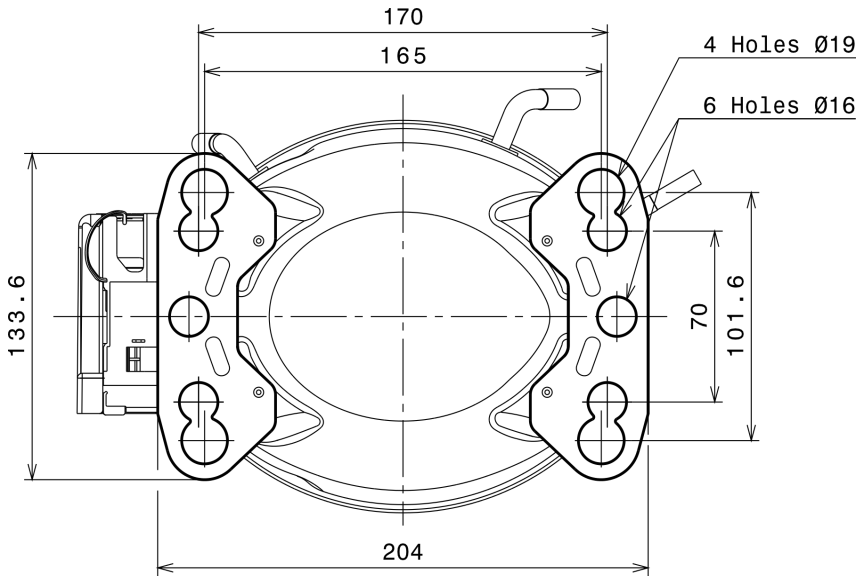
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



Technical Data Sheet

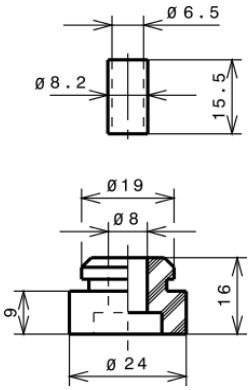
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

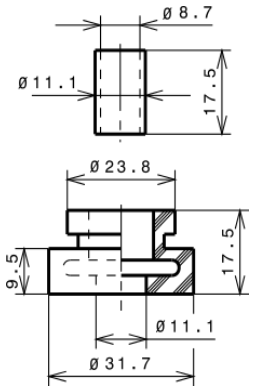
STANDARD

Ø16 holes (170x70 net)



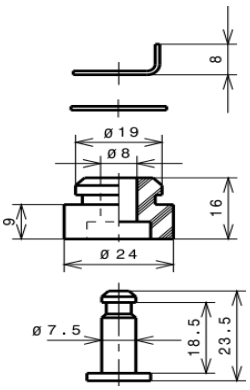
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A LBP

