



Model: NEK2140Z
Code: 269KA51

embraco POWER IN.
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	220-240 V 50 Hz 1 ~
Refrigerant:	R-134a
Application:	LBP

Motor type:	CSIR
Starting torque:	HST
HP:	1/2
Displacement:	16.8 cm ³

OPERATING CONDITION : ASHRAE LBP 32

Evaporation Temp.	-23.3 °C	Return Temp.	32.2 °C	Superheating	55.5 K
Condensing Temp.	54.4 °C	Liquid Temp.	32.2 °C	Subcooling	22.2 K

Cooling capacity	Power consumption	Efficiency
0.00 W	-- W	0.00 W/W

APPLICATION

Evaporating temperature range:	-45 to -10 °C
Permanent operating temperature (peak) :	60 (70) °C
Expansion device:	Capillary tube or Expansion valve

Cooling type:	
Air Flow	--
Maximum motor temperature:	130 °C

ELECTRICAL DATA

Start winding resistance at 25°C (77°F):	0 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -

Run winding resistance at 25°C (77°F):	0 Ω +/- 8%
LRA (A) 50 Hz / 60 Hz:	- / -
FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

MECHANICAL DATA

Bore:	mm
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Stroke:	mm
Displacement:	16.8 cm ³

OTHER INFORMATION

Weight:	kg
Lubricant type:	Polyolester ISO22

Oil charge:	350 ml
Nitrogen charge:	Yes

EXTERNAL SETTINGS

	Shape	Material	Diameter [mm]
Suction connector	--	--	
Discharge connector			
Process connector			

Base plate:

Tray holder:

PERFORMANCES AT STANDARD CHECK-POINTS

Checkpoint	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5% * W	+/- 7% W/W
ASHRAELBP32	429.00	--	--	1.31	--	--

* Calculations performed considering isentropic compression and a housing loss of 10%. This is an estimated heat amount discarded in the discharge pipe and the condenser combined.

ELECTRICAL ACCESSORIES

Kit:	1
Starter device:	CURRENT RELAY
Engineering code:	MTRPH-47-65
Run capacitor:	--
Starting capacitor:	72-88

Thermal protector: T0059/G6

Institutes approved for this electric kit:



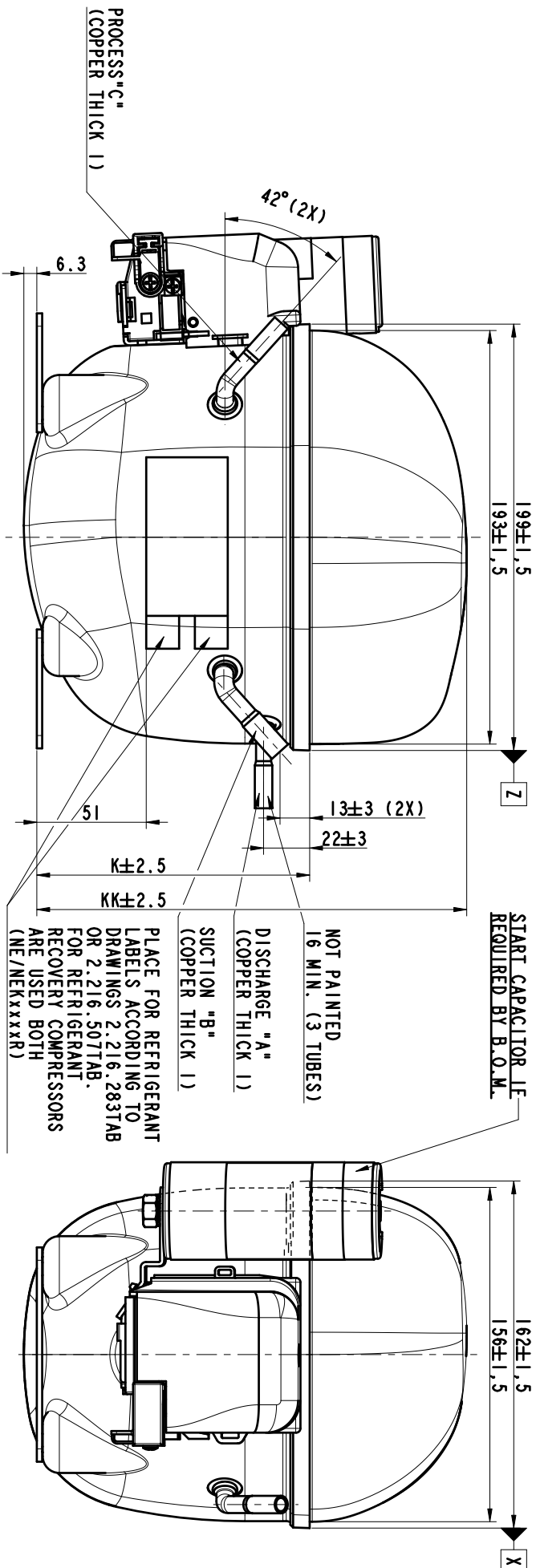
If purchased without electricals consult [Embraco](#) to verify the supplier of electricals approved for this compressor

MECHANICAL ACCESSORIES

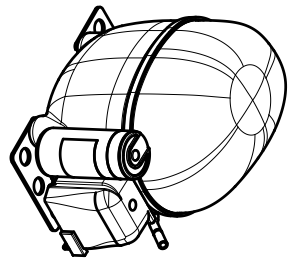
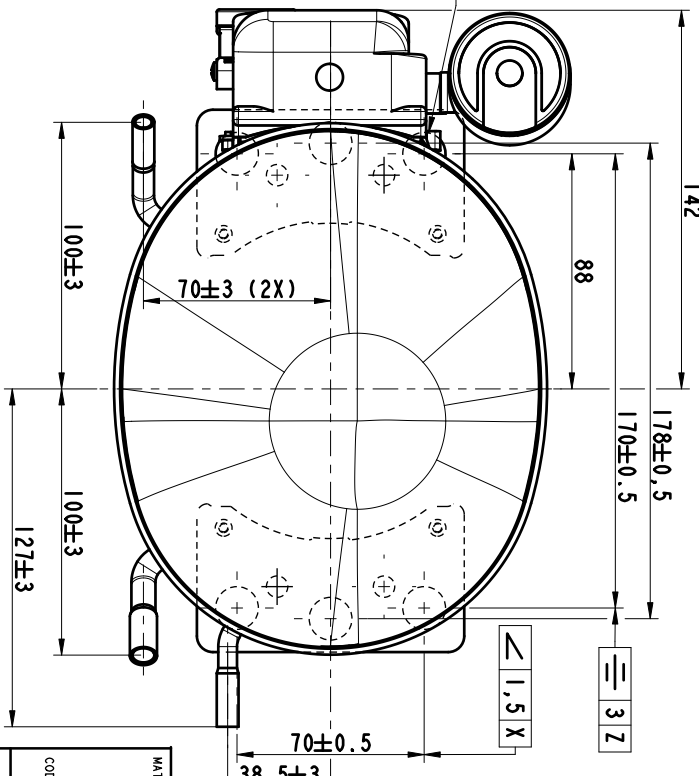
Rubber damper: Yes

Metal bushing: Optional

ECM	REVISION	LO	BY	APP	DATE	
33471	25	ADDED NEW MODEL NEUR214Z	TAB	LF	WG	11.04.2014
33788	26	ADDED NEW MODEL NEUR214U	TAB	LK	WG	07.05.2014
34098	27	ADDED MODELS NEUR21406A, NEUR21556A	TAB	LF	WG	02.06.2014
32548	28	ADDED MODELS NEUR210Z, NEUR212Z, NEUR2148A, NEUR210U ADDED "NEU" TO THE DESCRIPTION	TAB	MR	LF	22.9.2014
37454	29	ADDED NOTE: CSIR, RSIR, RSCR TO PG.1; ADDED PAGE 2 - CSR CONFIGURATION; MODELS NEUR210U, NEUR212Z, NEUR2148A, NEUR210U NEUR210U, NEUR212Z, NEUR2148A MOVED FROM PG.1 TO PG.2; CHANGE POSITION OF REFRIGERANT LABEL - PG.3;	E6 TAB KK BA	RR	WG	11.03.2015
35759	30	ADDED MODEL NEUR187Z	TAB	WP	WG	10.06.2015
38932	31	ADDED SHELL TYPE R10.32 AND MODEL NEU111Z	TAB	WG	RR	12.01.2016
31531	32	ADDED MODELS NEUR220U, NEUR212U, NEUR2206; MODEL TABLES MOVED TO SHEET 3; SHEET 3 REMOVED;	TAB	PS	WG	05.10.2016
44703	33	CHANGED DIMENSION KK FROM 201 TO 200 mm AND FROM 241 TO 236 mm;	TAB	KK	WG	05.01.2017



$\varnothing 16 \pm 0,25$ (6 HOLES)



CSIR, RSIR, RSCR

MATERIAL :

CODE :

DRAWN : TONELLA M.

APP. : MARTINO J.

ECM : 503723

06-10-2003

NAME

embraco

SHEET 1/3

EXTERNAL VIEW "NEK", "NBT", "NEU"

VISTA ESTERNA "NEK", "NBT", "NEU"

EXTERN PŮHLAD "NEK", "NBT", "NEU"

GEN. TOL. :

ANG. TOL. :

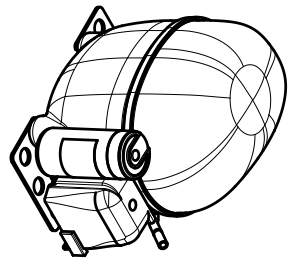
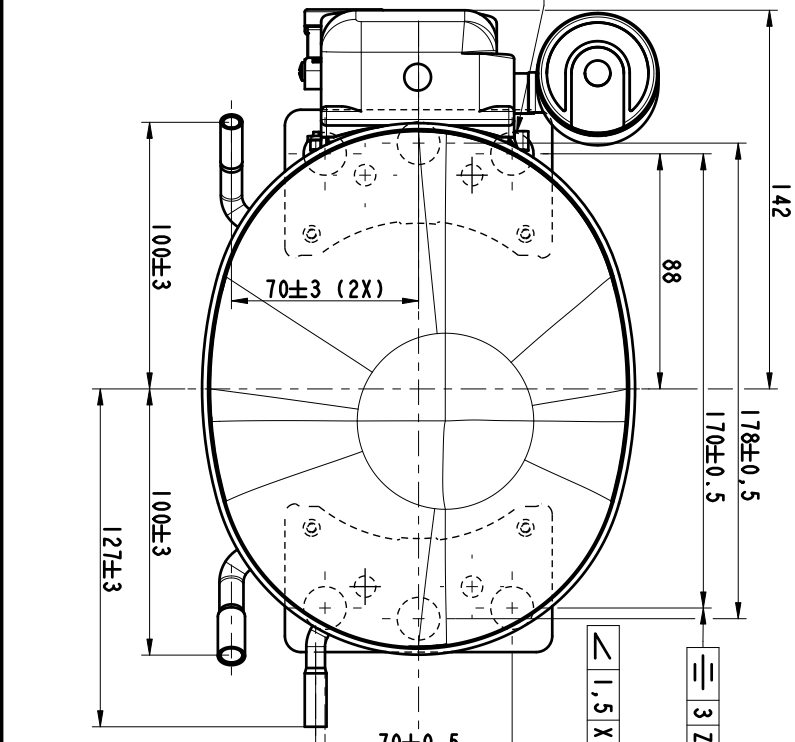
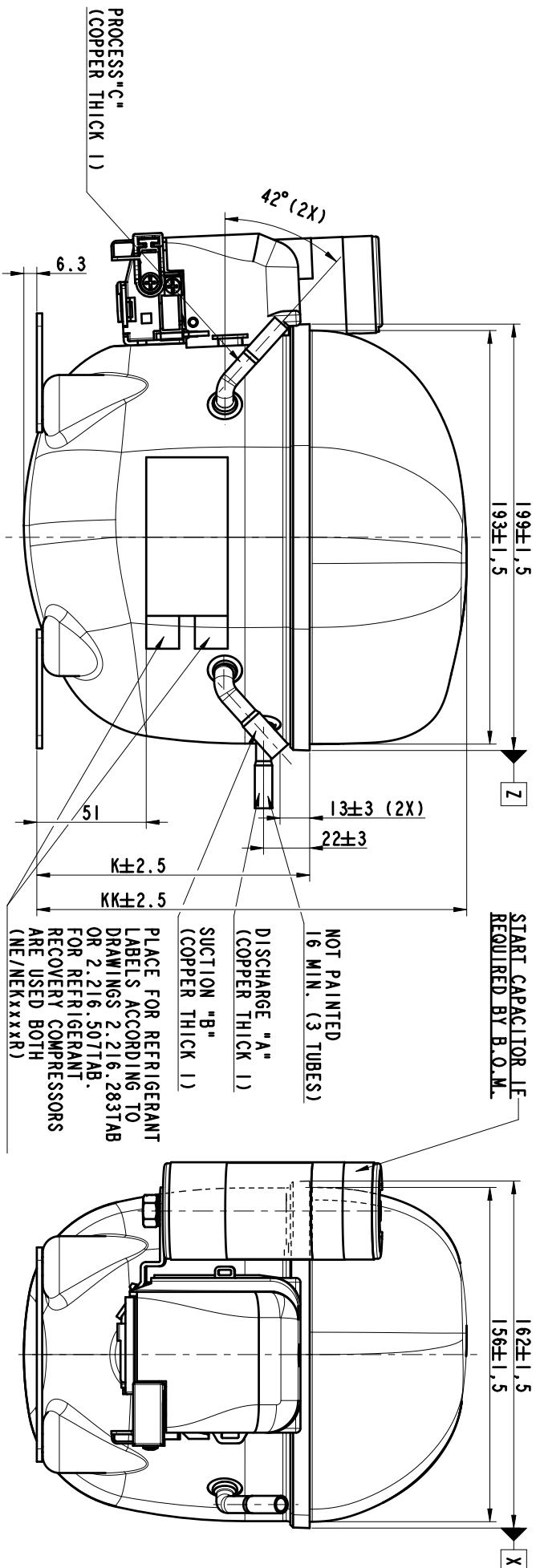
SCALE : 1:2

REPLACE

No. 1.960.853

THIS MATERIAL IS SUPPLIED AS IS AND IS NOT TO BE USED IN ANY APPLICATION WHERE THE USER'S SAFETY OR THE SAFETY OF OTHERS DEPENDS ON THE PROPER USE OF THE PRODUCT.

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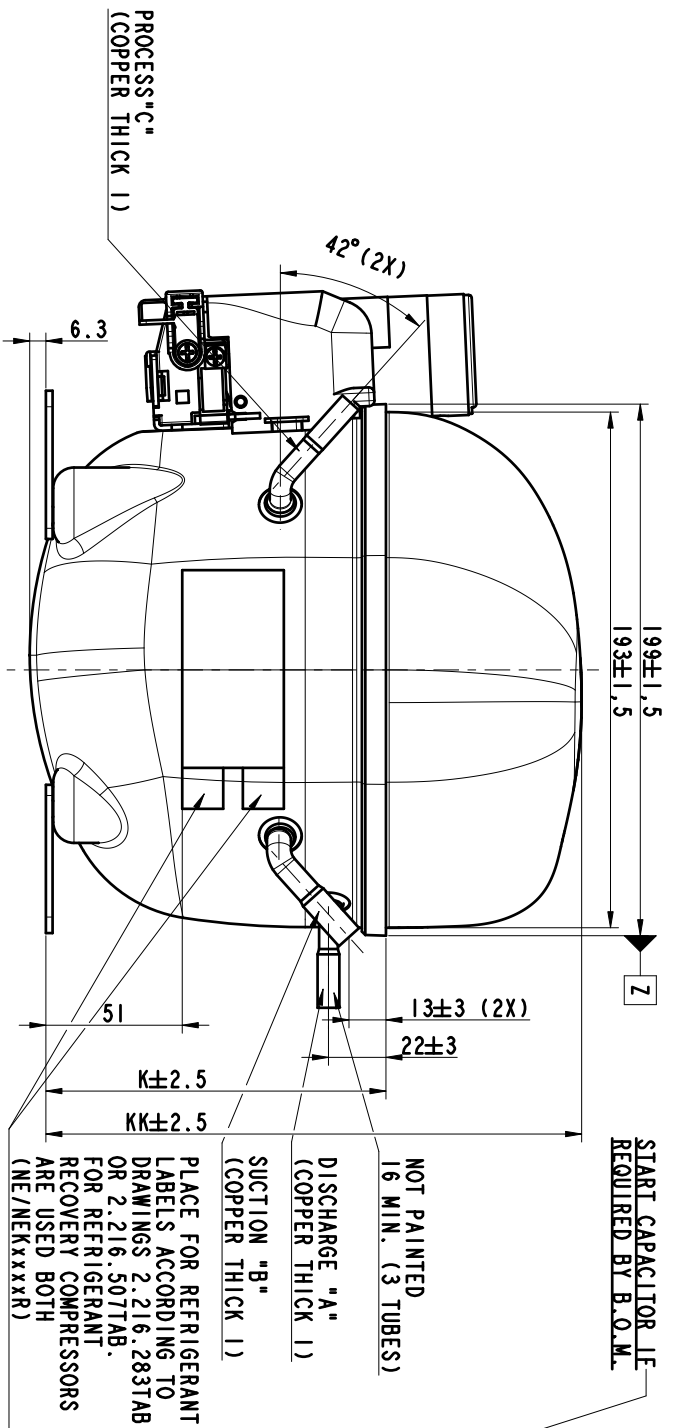
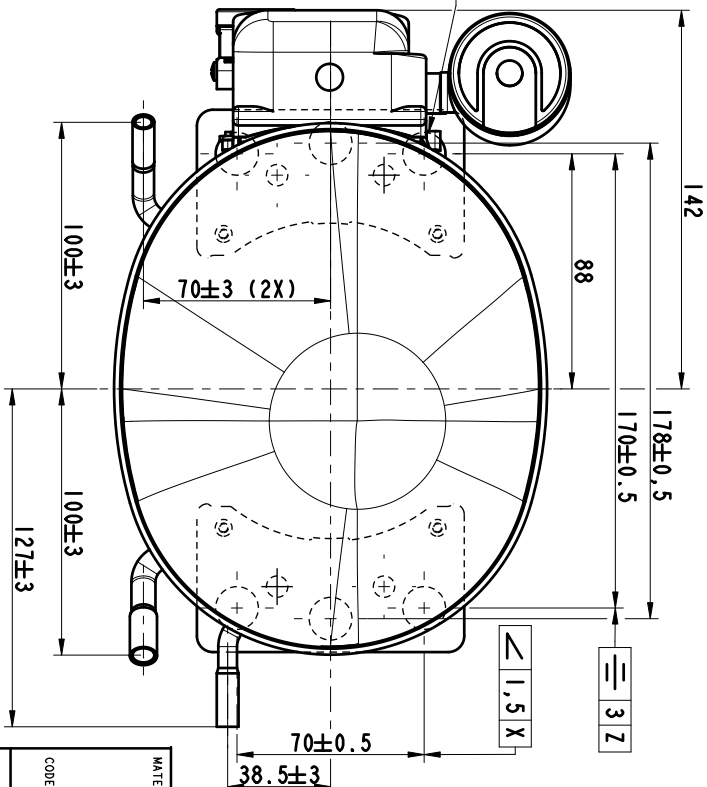
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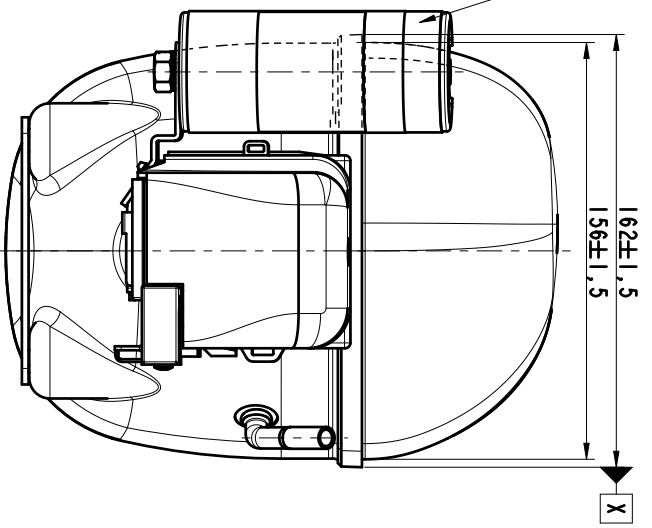
START CAPACITOR LE
REQUIRED BY B.O.M.

NOT PAINTED
16 MIN. (3 TUBES)

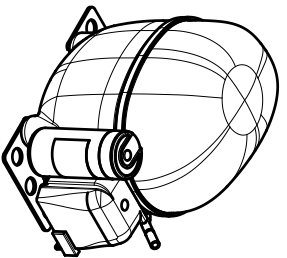
DISCHARGE "A"
(COPPER THICK 1)

SUCTION "B"
(COPPER THICK 1)

PLACE FOR REFRIGERANT
LABELS ACCORDING TO
DRAWINGS 2.216.507TAB,
OR 2.216.507TAB,
FOR REFRIGERANT
RECOVERY COMPRESSORS
ARE USED BOTH
(NE/NEKXXXXR)



CSIR, RSIR, RSCR



SCALE 1:5

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