



CERTIFICATE OF PLANT DESIGN REGISTRATION

Work Health & Safety Act 2011
Work Health & Safety Regulation 2017

ABN: 81 913 830 179
Phone: 13 10 50

Registration No: PV 6-246660/20 **Issue Date:** 27/08/2020

Registration Holder: DANFOSS A/S
Postal Address: 81 NORBORGVEJ
NORDBORG 6430
DENMARK

Plant Type: Pressure Vessel Original

Model Number/ Trade Name: Scroll Compressor Shell No. 8

Technical Standard : EN 13445-1-5(2017) , EN 14276-1(2011)

Engineering Principles: No

Drawing Number Design:

Design Description:

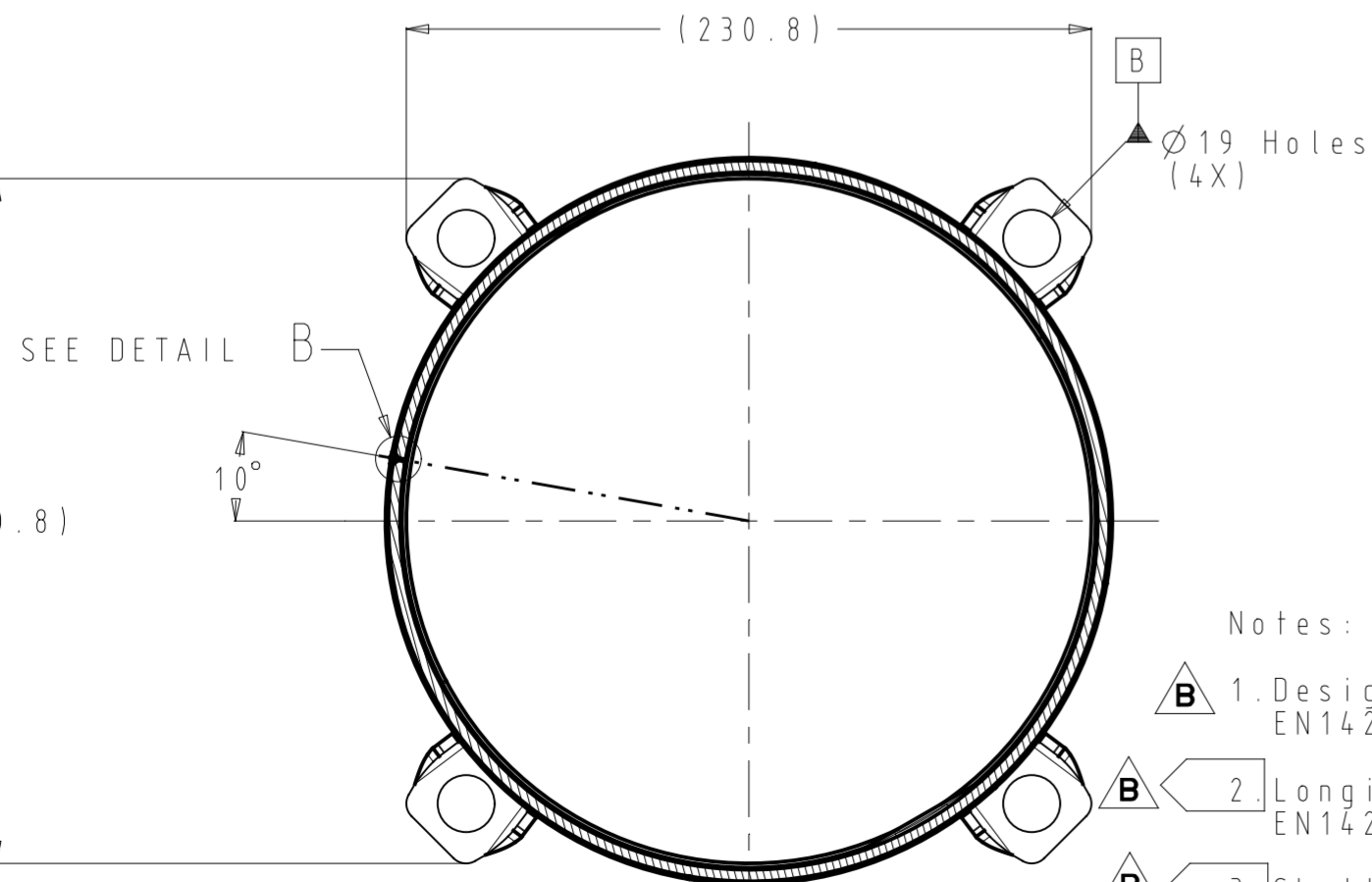
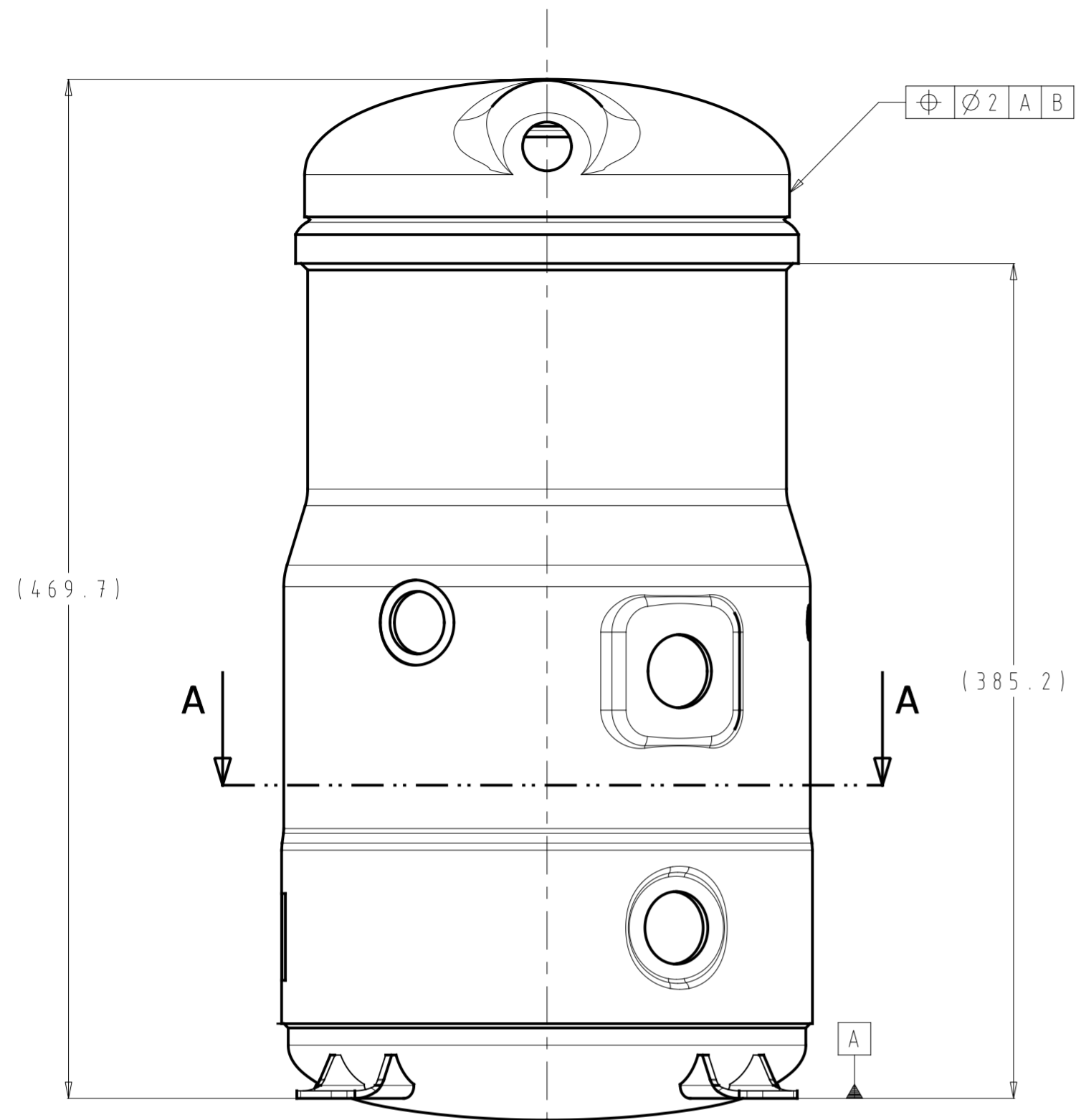
Hazard Level	B
Contents	Harmful
Chamber 1 Volume (l)	13.4
Chamber 1 Design Pressure (kPa)	0 to 3330
Chamber 1 Temperature (°C)	-35 to 55
Chamber 1 Fluid Type	Gas
Drawing Number & Revisions	9850280_797 REV B
Pressure Vessel	Other
Other Type	Hermetic Compressor Shell
Number of Chambers	1

Note: The design of an item of plant registered under the Occupational Health and Safety Regulation immediately before the repeal of that regulation is deemed to have been registered under part 5.3 of the WHS Regulation

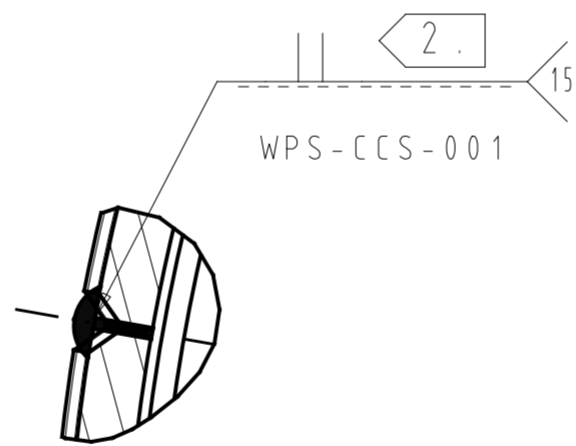
Fee Paid: \$294.17

Receipt Date: 13/08/2020

Receipt No: 30-7589



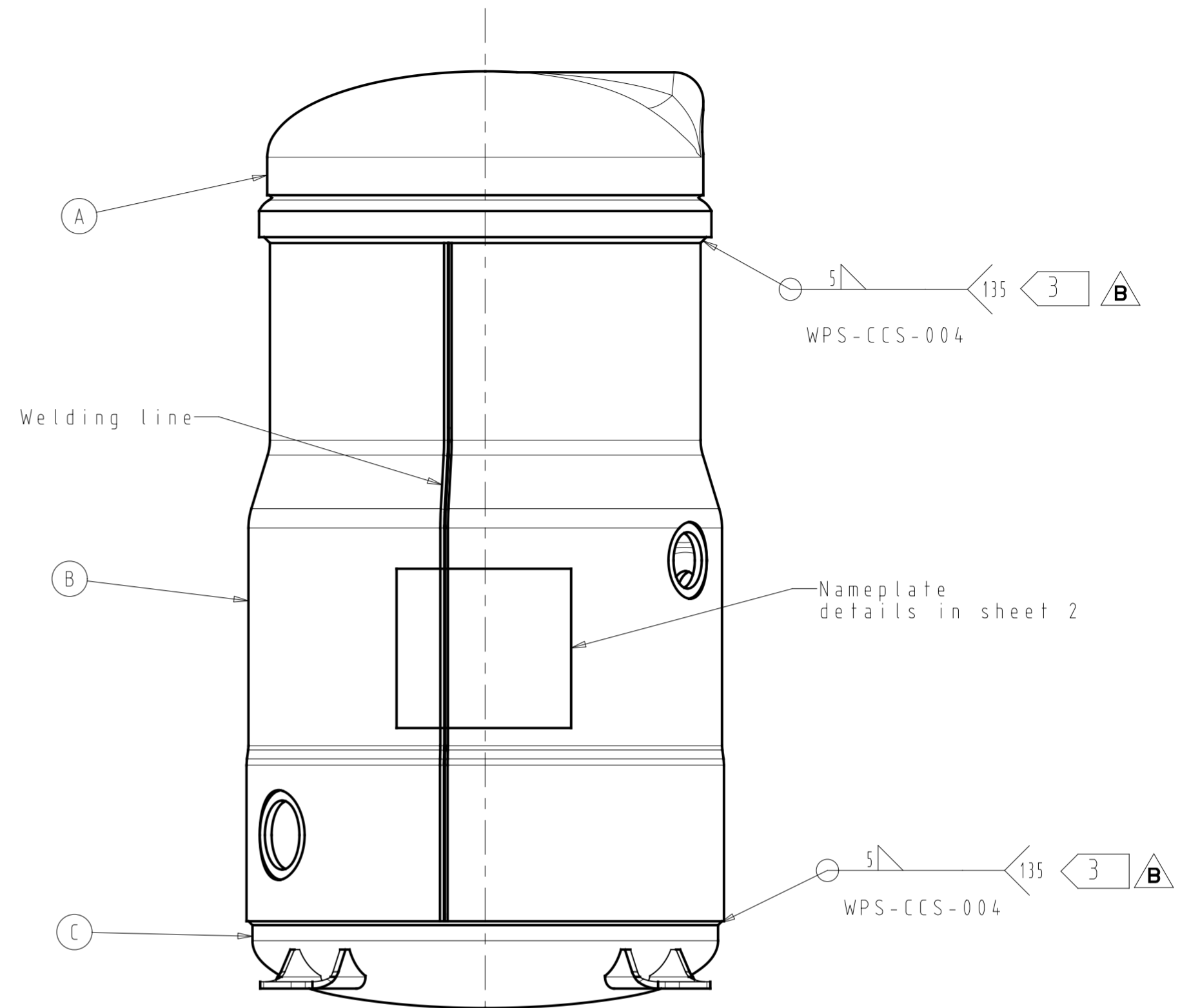
SECTION A-A



DETAIL B
SCALE 2/1

Notes:

- B** 1. Design code: EN13445 - part 1 to 5: 2017
EN14276-1: 2011, AS4343: 2005 Hazard level C
- B** 2. Longitudinal continuous welding according to
EN14276-1: 2011, EN5817:2014 and specification 8550091.
- B** 3. Shell welding requirements according to
EN14276-1: 2011, EN5817:2014 and specification 8550091.
- B** 4. Compressor Model:
SH/WSH090, PSH019, VSH088, VZH088, DSH090, DSF090, DSF100.



	Pressure (bars)	Volume(L)	TSMX (°C)	TSMI (°C)
Lower Pressure	33.3	12.7	55	-35
High Pressure	45	0.7	150	-35

Model	Part	description	Part number	Thickness MIN.	Material Grade	Material Standard
VZH088	A	upper shell	5312454P01	3.9mm	SPHC	Q/BQB 302
	B	mid shell	5312548P01	3.9mm	SPHE	Q/BQB 302
	C	lower shell	5314233P01	3.5mm	SPHC	Q/BQB 302

General Tolerances Table	Drawing Status :			Production print		
				Surface Area (m2)		
N/A				Estimated Mass (Kg)		
				Projection	Scale	Size
Roughness (µm) N/A				1/5		A2
				<div style="display: flex; align-items: center;"> Key characteristic Critical characteristic According to Danfoss standard 50220024 </div>		
			Revision	ECR Number	Date	Material :
			Designer	Wu Fang		Designation
			Approval	Hu Qian		Scroll Compressor Shell No.8
			Confidential: Property of Danfoss Commercial Compressors. Not to be handed over to copied or used by third party. Two or three dimensional reproduction of contents to be authorized by Danfoss CC.			Sheet 1 of 2
						B. 4 Dwg N° 9850280 797 B

Danfoss
MADE IN CHINA

Model no: VZH088AGANA



Serial no: GG2500000321



380-480 V 3 ~ 50-60 Hz UL electrical ratings to CDS303 Frequency converter

Thermally protected

P.E.D.	L.P. side	HP side
Marking	33.3 bar	45 bar
PS	55 °C	150 °C
TS max	-35 °C	-35 °C
TS min	12.7 L	0.7 L
Volume	Lubricant: P.O.E. 160SZ	

CAUTION: Variable speed compressor electric supply via Danfoss approved frequency converter only



Refrigerant: R410A

PROTECTED BY DOMESTIC AND FOREIGN PATENTS

Freq: 50-200 Hz
Speed: 25-100 rps
MMT: 46.9 A



WARNING **CAUTION**

Installation and servicing shall be performed by trained personnel only. Failure to observe these safety warnings could result in serious injury or death.

ELECTRIC SHOCK HAZARD: Turn off power before servicing. (Discharge all capacitors.)
Keep terminal cover in place and securely fastened whenever power is applied to the compressor. Use this equipment on a grounded system only.

HIGH PRESSURE: System contains refrigerant and oil under pressure. Remove pressure from both the high and low side before servicing, wear safety goggles.



FIRE HAZARD: Use tubing cutter to remove compressor. Do not use torch as oil may catch fire.

Use only manufacturer's approved refrigerants, lubricants and electrical components. Unauthorized refrigerant / lubricant / electrical component could cause fires, explosions, electrical shorting.

For details refer to multi language instructions and technical documentation available on Danfoss website at <http://cc.danfoss.com>

600115P01

Nameplate

General Tolerances Table	Drawing Status : Production print				Surface Area (m2) Estimated Mass (Kg) Projection  Scale 1/5 Size A2 Key characteristic Critical characteristic According to Danfoss standard 50220024 Material : Designation Scroll Compressor Shell No.8
	N/A	B	Update	01-06-2020	
Roughness (µm)	A	Creation	10-10-2016	 Confidential: Property of Danfoss Commercial Compressors. Not to be handed over to copied or used by third party. Two or three dimensional reproduction of contents to be authorized by Danfoss CC.	
N/A	Revision	ECR Number	Date		
	Designer	Wu Fang			
	Approval	Hu Qian		Sheet 2 of 2 B. 4 Dwg N° 9850280 797 B	