

## **GDK132 FS**

CCN: Rev: ECN: Sheet: Date:

47782778001 A 1467100 5 of 8 Jul-2022

State   Departure   Pressume   10	Model			GDK132FS-7A	GDK132FS-8A	GDK132FS-10A	GDK132FS-12.5A
Table Service Preserve	PRIPAT DEPENDENCE DATA						
200   201	KNERAL PERFORMANCE DATA Lated discharge Pressure		barg	7.0	8.0	10.0	12.5
Marie   Marie   Processor   Large   4.8		(2)		7.2	8.2	10.2	12.7
Color Of the Color Properties   Color   42	inimum Operating Pressure		barg	4.5	4.5	4.5	4.5
100   100	aximum Operating Ambient Temperature		°C				
### 12   12   12   12   12   12   12   1			°C				
in Secret Filtricency				109	109	109	109
March   1972		(2)		132	132	132	132
### 1500 MIN   1900 MI	ain Motor Efficiency						
Note   Proper   Air Codes   Note	apacity FAD		m²/min				
Source   Presidence   Art   Content   Source   Source   Art   Content   Source	pecific Power - Air Cooled			6.0	6.4	7.0	8.0
Source   Presidence   Art   Content   Source   Source   Art   Content   Source	OTHER I PREPI	(6)					
Manual Country Country   Account of Notice   No.   N			Sound Pressure - dB(A)	76	76	76	76
March   Marc	oise Level Standard Package - Air Cooled				94	94	94
at Bornard (011 color)  WW 125.3 125	IL CARRY OVER		mg/m³	≤3	≤3	≤3	€3
and Reserved (Oil and Afferencedors)		ture & Maximum					
The Land Multicanal Static Pressure	leat Removal (Oil Cooler)						
## Air Flow both New York   1466.0   14							
March Note Note   New Note   Ne							
Recorder CTD	an Air Flow an Motor Nominal Power						
R	Cooling Air Temperature Rise@46°C		°C	29	29	29	29
RPM	Aftercooler CTD	(7)	°C	12	12	12	12
RPM							
p   p   p   p   p   p   p   p   p   p			2014	2425	2246	2102	1740
March   142.6							
				142.6	143.9	142.6	132.0
PING COMMENTIONS							
Inches G   Inches MPT   Inch	OOLANT LUBRICATION DATA	(12)	litres	94.0	94.0	94.0	94.0
Inches G 3 NICH (FEMALE) 3 NICH (FEMALE) 3 NICH (FEMALE) 0.5 (FEMALE)	otal coolant capacity his coolea						
Inches NPT   10x8 1	PIPING CONNECTIONS	(8)					
MENSIONS AND WEIGHT   120 (4.7)   120 (4	ir Discharge						
Many	oolant Drain - Hose Size		Inches NPT				
Marging Holis Ho	iameter of Power Inlet		mm (inches)	120 (4.7)	120 (4.7)	120 (4.7)	120 (4.7)
## Feight — Air Cooled   Feight — Air Cooled —	IMENSIONS AND WEIGHT						
Array   Arra	ength, Width, Height						
CECTRICAL DATA   13			кд	200U 47793077004	200U 47782077004	2000 47792077004	200U 47792077004
TEFC, IPSS   2	A Drawing Number - Air Cooled			47783077001	47763077001	47763077001	47763077001
1		(13)			TEE	1D55	
Class F, 155C							
Amps @ 380V Amps @ 400V Amps @ 415V  Amps @ 380V Amps @ 415V  Amps @ 380V Amps @ 415V  Amps @ 380V Amps @ 400V Amps @ 400V Amps @ 400V Amps @ 400V Amps @ 415V  3189  ackage Power Factor  lectrical Installation commended Supply Cable Size  Imm*Co (Kcmil) @ 380V Amps @ 400V Amps @ 40							
Amps @ 380V Amps @ 40DV Amps @ 415V  295 Amps @ 200 Amps @ 415V  270  Amps @ 380V Amps @ 415V  2950 Amps @ 3083 Amps @ 400V 3083 Amps @ 400V 3189  tackage Power Factor  lectrical Installation recommended Supply Cable Size  INSTALLATION TO MINING COMMENDED TO MINING	otor insulation class / remperature Rise				Cidss i	, 100 0	
Amps @ 380V Amps @ 400V Amps @ 415V 280 280 280 280 280 280 280 280 280 280	ull Load Package Current - Air Cooled	(9)					
Amps @ 400V Amps @ 415V 270  Amps @ 415V 2950 Amps @ 400V 2950 Amps @ 400V 3083 Amps @ 415V 3189  Amps @ 400V 3083 Amps @ 400V 500 Amps @ 400V 500							
Amps @ 400V Amps @ 415V 270  111 Motor Locked Rotor Current  144  Amps @ 380V 2950 3083 3083 3083 3083 3083 3083 3083 30							
Amps @ 380V   2950			Amps @ 400V				
Amps @ 380V Amps @ 400V Amps @ 415V 3083 3189  ackage Power Factor  Lectrical Installation  commended Supply Cable Size  mm*Cu (Kcmil) @ 380V mm*Cu (Kcmil) @ 400V mm*Cu (Kcmil) @ 415V  Amps @ 400V  Amps @ 400V  Amps @ 400V  500  Amps @ 400V  500	de Marie Lodo I Barro	(14)	Author & Area		-		
Amps @ 400V 3083 Amps @ 415V 3189  Lectrical Installation recommended Supply Cable Size  mm*Cu (Kcmil) @ 380V mm*Cu (Kcmil) @ 400V 185 mm*Cu (Kcmil) @ 415V 185  xximum Recommended Fuse Rating  (19(11)  Amps @ 380V mm*Cu (Kcmil) @ 400V 185 mm*Cu (Kcmil) @ 400V 500  Amps @ 400V 500	ain Motor Locked Rotor Current	(47)					
Amps @ 400V 3083 Amps @ 415V 3189  Lectrical Installation recommended Supply Cable Size  mm*Cu (Kcmil) @ 380V mm*Cu (Kcmil) @ 400V mm*Cu (Kcmil) @ 415V 185  Liximum Recommended Fuse Rating  (19)(11)  Amps @ 380V Amps @ 400V 500  Amps @ 400V 500			Amps @ 380V				
Commended   Comm			Amps @ 400V				
Amps @ 380V			Amps @ 415V		31	189	
Manual Recommended Supply Cable Size	ackage Power Factor				0.	91	
Manual Recommended Supply Cable Size	lectrical Installation						
Amps @ 400V   500   Amps @ 400V   Amps @ 400V   Amps @ 400V   Amps @ 400V   500   Amps @ 400V   Am	ecommended Supply Cable Size	(10)					
mm*Cu (Kcmil) @ 400V 185 mm*Cu (Kcmil) @ 415V 185  xximum Recommended Fuse Rating (10)(11)  Amps @ 380V 500 Amps @ 400V 500			mm²/Cu (Kcmil) @ 380V				
Amps @ 380V 500 Amps @ 400V 500			mm²/Cu (Kcmil) @ 400V		1	85 85	
Amps @ 380V 500 Amps @ 400V 500		(IM(II)	mmycu (romii) @ 415V		II.		
Amps @ 400V 500	aximum Recommended Fuse Rating	(**)(**)					
			Amps @ 380V				
Amps @ 415V 5U0			Amps @ 400V		5	UU	
			Amps @ 415V		5	UU	

- Notes:

  1. FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C

  2. Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure

  3. IE3 efficiency motor

  4. Measured at rated capacity and rated pressure

  5. Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C

  6. Measured in tree field conditions per ISO 2151 using Parallelepiped Method; ducted inlet and outlet, with + 3 dB(A) tolerance

  7. CTD based on 100°F38° clinet air at 40% Relative Humidity (For alternate conditions contact Gardner Denver)

  8. 'G' Thread for domestic standard

  90°C copper cables. Always apply local electrical codes for sizing cables and system protection

  10. 90°C copper cables. Always apply local electrical codes for fuse sizing

  12. Coolant volumes listed are approximate. See operator manual for coolant fill proceedure

  13. 50Hz (£2%) motor voltage tolerance: (400V)±10%

  15. Star-Delta starting current inrush is about 33% of direct starting current

  15. During the Star-Delta open-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values



## **GDK132 FS**

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Model			GDK132FS-7W	GDK132FS-8W	GDK132FS-10W	GDK132FS-12.5W
GENERAL PERFORMANCE DATA						
Rated discharge Pressure	(2)	barg	7.0	8.0 8.2	10.0	12.5
Maximum Operating Pressure Minimum Operating Pressure	(4)	barg barg	7.2 4.5	8.2 4.5	10.2 4.5	12.7 4.5
Maximum Operating Ambient Temperature		°C	46	46	46	46
Minimum Operating Ambient Temperature		°C	2 109	2 109	2 109	2 109
Maximum System Temperature Setting Nominal Power - Main Motor		°C kW	132	132	132	132
Main Motor Efficiency	(3)	%	95.4%	95.4%	95.4%	95.4%
Capacity FAD	(1)	m³/min	25.5 150.5	24.5 151.9	21.8 150.4	17.7 138.1
Package Input Power with Fan - Water Cooled Specific Power - Water Cooled	(4)(5)	kW kW/m³/min	5.9	6.2	6.9	7.8
dann I min	(6)					
SOUND LEVEL Noise Level Standard Package - Water Cooled		Sound Pressure - dB(A)	73	73	73	73
Noise Level Standard Package - Water Cooled		Sound Power - dB(A)	91	91	91	91
OIL CARRY OVER		mg/m³	≤3	≤3	≤3	≤3
COOLING DATA (@ Maximum Ambient Temperate Heat Removal (Oil Cooler)	ure & Maximum Dis	charge Pressure)	125.3	125.3	125.3	125.3
Heat Removal (Oil and Aftercooler)		kW	157.7	157.7	157.7	157.7
Permitted Additional Static Pressure		Pa	30	30	30	30
Fan Air Flow		m³/min kW	80.0 0.5	80.0 0.5	80.0 0.5	80.0 0.5
Fan Motor Nominal Power		KVV	0.5	0.5	v.5	0.5
Cooling Air Temperature Rise@46°C		°C °C	12 13	12 13	12 13	12 13
Cooling Water Temperature Rise@38°C		m3/h	.5	15	13	15
Cooling Water Flow @10℃		morn	6	6	6	6
@20°C			7	7	7	7
@30°C @38°C	(7)		9 13	9 13	9 13	9 13
₩38 C				15		
Cooling Water Max Pressure Cooling Water Min Pressure		bar bar	4 2	4 2	4 2	4 2
Cooling Water Min Pressure Cooling Water Pressure Drop		bar	1	1	1	1
Aftercooler CTD		°C	12	12	12	12
AIR END DATA						
Male Rotor Speed		RPM	2435	2346	2103	1740
Tip Speed Rotor		m/sec	29.3	28.2	25.3	20.9
Full Load Shaft Power		kW	142.6	143.9	142.6	132.0
COOLANT LUBRICATION DATA Total Coolant Capacity - Water Cooled	(12)	litres	104	104	104	104
PIPING CONNECTIONS	(8)					
Air Discharge		Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain - Hose Size		Inches NPT mm (Inches)	0.5 (FEMALE) 120 (4.7)	0.5 (FEMALE)	0.5 (FEMALE) 120 (4.7)	0.5 (FEMALE) 120 (4.7)
Diameter of Power Inlet		mim (inches)	120 (4.7)	120 (4.7)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT			2300*1500*1700	2300*1500*1700	2300*1500*1700	2300*1500*1700
Length, Width, Height Net Weight - Water Cooled		mm kg	2835	2835	2835	2835
GA Drawing Number - Water Cooled		· ·	47783078001	47783078001	47783078001	47783078001
ELECTRICAL DATA	(13)					
Motor Protection					C IP55	
Motor Number of Poles Motor Insulation Class / Temperature Rise					2 ₹, 155°C	
Full Load Package Current - Water Cooled	(9)			,,,,,,		
ruii Load rackage Cuirent - water Cooled						
		Amps @ 380V			90	
		Amps @ 400V Amps @ 415V			76 66	
		Allipa to Tiov		-		
Main Motor Locked Rotor Current	(14)					
		Amps @ 380V		29	900	
		Amps @ 400V		30	031	
		Amps @ 415V		3	135	
				0	91	
Package Power Factor						
Electrical Installation	(10)					
Blectrical Installation	(10)					
Electrical Installation	(10)	mm²/Cu (Kcmil) @ 380V			85	
Electrical Installation	(10)	mm²/Cu (Kcmil) @ 400V		1	85	
Electrical Installation Recommended Supply Cable Size				1		
Package Power Factor  Bloctrical Installation Recommended Supply Cable Size  Maximum Recommended Fuse Rating	(10)	mm²/Cu (Kcmil) @ 400V		1	85	
Electrical Installation Recommended Supply Cable Size		mm²/Cu (Kcmil) @ 400V mm²/Cu (Kcmil) @ 415V Amps @ 380V		1 1 5	85 85 00	
Electrical Installation Recommended Supply Cable Size		mm²/Cu (Kcmil) @ 400V mm²/Cu (Kcmil) @ 415V		1 1 5 5	85 85	

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217: 2009 Annex C
  Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
  IE3 efficiency motor
  Measured at rated capacity and rated pressure
  Specific power guaranteed in accordance with ISO 1217: 2009 Annex C
  Specific power guaranteed in accordance with ISO 1217: 2009 Annex C
  Measured in free field conditions per ISO 2151 using Parallelepiped Method; ducted inlet and outlet, with +3 dB(A) tolerance
  CTD based on 100°F738°C inlet air at 40% Relative Humidity (For alternate conditions contact Gardner Denver)
  G\* Thread for domestic standard
  Maximum current includes 5% additional current due to fouled filters and elements
  90°C copper cables. Always apoly local electrical codes for sizing cables and system protection
  Time delay luse recommended. Apply local electrical codes for loss sizing
  Coolant volumes listed are approximate. See operator manual for coolant fill proceedure
  50Hz (22%) motor voltage tolerance: (400°V)+10%
  Slar-Delta starting current inrush is about 33% of direct starting current
  During the Star-Delta open-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values