

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)						 																
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پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																
BK	GCS	HY	120	EL	DS	0001	V03																
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴																							

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEET (W/CURVE, DRAWING & CERTIFICATE) FOR COMPRESSOR MAIN MOTOR

نگهداشت و افزایش تولید میدان نفتی بینک

V03	May. 2024	AFC	Havayar	M.Fakharian	S.Faramarzpour	
V02	Jan. 2024	AFC	Havayar	M.Fakharian	S.Faramarzpour	
V01	Jul. 2023	IFR	Havayar	M.Fakharian	S.Farmarzpour	
V00	Feb. 2023	IFR	Havayar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Status:

IFA: Issued for Approval

IFR: Issued for Review

IFI: Issued for Information

AFC: Approved for Construction

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)																	
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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه											
V03	0001	DS	EL	120	HY	GCS	BK											

REVISION RECORD SHEET

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3	X	X	X	X	
4	X	X	X	X	
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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)																									
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BK	GCS	HY	120	EL	DS	0001	V03																			

Item	Category	Required Specification	Vendor Data
1	Driven Machine	Electrical Motor	Confirmed
2	Driven Machine Tag No.	-	M-2101- A/B/C
3	Manufacturer		WOLONG NANYANG
4	Manufacturer's Number / Type		YBXKK 800-14
5	Manufacturing Standard	IEC 60034 & IPS-M-EL-132(2)	Confirmed
6	Location	☒ Outdoor (Under Shelter) ☐ Indoor	Outdoor
7	Area Classification	Acc. to requisition data	Zone 2 IIB
8	Ambient Temperature	5 to +55°C	5 to +55°C
9	Relative Humidity	100 %	100 %
10	Dust	☒ Yes ☐ No	Confirmed
11	Corrosion	☒ Yes ☐ No	Paint is manufacture standard
12	Elevation	80 m Above Sea Level	Confirmed
13	Quantity	Acc. To Load List (BK-GCS-PEDCO-120-EL-LI-0001)	One each compressor
14	Tag Number	Acc. To Load List (BK-GCS-PEDCO-120-EL-LI-0001)	M-2101- A/B/C
15	Motor Type	Asynchronous, Squirrel Cage	Confirmed
16	Mounting	☐ Horizontal ☐ Vertical	Horizontal
17	Rotor Construction	☒ Brazed Copper Bars ☐ Aluminum Die Cast	IEC design
18	Stator Case Material	Cast Iron	Steel
19	Frame Material	Steel Sheet or Cast Iron	Steel
20	Cooling Method	According to IPS-M-EL-131(2)	IC511
21	Ingress Protection Degree for Motor	IP 54	IP55
22	Ingress Protection Degree for Terminal Box	IP 55	IP55
23	Explosion Protection of Motor	N/A for Safe Area Zone 2, IIB, T3	Zone 2, IIB, T3
24	Explosion Protection of Terminal Box	N/A for Safe Area Zone 2, IIB, T3	Zone 2, IIB, T3
25	Ex. Certificate Authority/Certificate No.	By Vendor	ECM-ATEX - SHExC23.3195X
26	Driven Machine Shaft Power Requirement (P _{mp})	As Per Related Mechanical Data sheet (to be Specified by Vendor)	963.9KW (PSV setting)
27	API Design Margin (Km)	1.10	Confirmed
28	Motor output shaft power requirement @ site condition (=Pmp/Km)	As Per Related Mechanical Data sheet (to be Specified by Vendor)	1070KW@ site condition

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	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	HY	120	EL	DS	0001	V03	

Item	Category	Required Specification	Vendor Data
29	De-rating factor due to Ambient Temperature (K _t)	0.85 (MFR Shall Advise The Value)	1070KW@ site condition
30	De-rating factor due to Altitude (K _a)	1 (MFR Shall Advise The Value)	1070KW@ site condition
31	Motor Power (Defined for IEC condition i.e. 40°C)	As Per Related Mechanical Data sheet (to be Specified by Vendor)	1070KW@ site condition
32	Standard Rated Motor Output =K _m X P _{mp} / (K _a K _t)	By Vendor	1070KW@ site condition
33	Frame Size	By Vendor	800
34	Rated Voltage	11KV ±10% or 3.3KV±10%	11KV ±10%
35	Rated Frequency	50 Hz ±5%	50 Hz ±5%
36	Voltage During Motor Start	80% Un	Confirmed
37	Synchronous Speed	By Vendor	428 rpm
38	Full Load Speed [RPM]	By Vendor	424 rpm Rated
39	Number of Poles	By Vendor	14
40	Starting Method	Direct on Line	Confirmed
41	Direction of Rotation (Viewed from coupling end)	Shall be Proposed by MFR Based on Driven Load Rotation of Direction	Bi-direction
42	Stator Winding Connection	Star	Confirmed Y
43	Location of Terminal Box (Viewed from DE)	[] Right [] Left	Terminal box for main power supply: Right CT terminal box: Left
44	Insulation Class	Class F	Confirmed
45	Class of Temperature Rise	Class B	Confirmed
46	Max. Permissible Starting Time [s]	By Vendor	25S
47	Accelerating Time DOL starting, at 100% U _n [s]	By Vendor	9S
48	Accelerating Time DOL starting, at 80% U _n [s]	By Vendor	28S
49	Starting Torque at 100% U _n [N.m]	By Vendor	14460
50	Starting Torque at 80% U _n [N.m]	By Vendor	9254
51	Maximum Torque [N.m]	By Vendor	2 × Rated torque
52	Rated Torque [N.m]	By Vendor	24100
53	Rated Current [A]	By Vendor	81.7
54	No Load Current [A]	By Vendor	30.8
55	Locked Rotor Current [A]	<7I _n	Confirmed
56	Torque-Speed Class	Shall be Selected Based on Driven Load Torque Requirement	[] A [] B [] C [X] D
57	Permit to Start Times	3C2H	Confirmed
58	Reacceleration	Capable for connection to 100%	Confirmed

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	BK	GCS	HY	120	EL	DS	0001	V03	

Item	Category	Required Specification	Vendor Data
		main voltage with 30%, 180° out of phase residual voltage.	
59	Heating time Constant [minute]	By Vendor	120
60	Cooling Time Constant [minute]	By Vendor	240
61	Duty Cycle	S1	Confirmed
62	Rotor Moment of Inertia [kgm ²]	By Vendor	459.5
63	Driven Machine Moment of Inertia [kgm ²]	By Vendor	1471.85
64	Max. Allowable Load Moment of Inertia [kgm ²]	By Vendor	1600
65	Power Factor at ½ Rated Load	By Vendor	0.58
66	Power Factor at ¾ Rated load	By Vendor	0.67
67	Power factor at Rated Load	By Vendor	0.73
68	Efficiency at ½ Rated Load	By Vendor	93.4%
69	Efficiency at ¾ Rated Load	By Vendor	93.9%
70	Efficiency at Rated Load	By Vendor	94.2%
71	Bearing (DE)		
	Type (Detail Description by Vendor)	[] Antifriction (Ball Bearing) [] Antifriction (Roller Bearing) [X] Sleeve (Spherical Self Aligned)	Confirmed
	Manufacturer	By Vendor	Chinese brand -Nanyang
	Minimum Life Without Load	Minimum 100,000 Hours	Confirmed
	Minimum Life With Load	By Vendor	
	Lubrication	Oil (oil specification shall be specified by manufacturer)	Confirmed
	Lubrication system (To be advised by manufacturer considering ambient temperature)	[] Grease (anti friction bearings) [X] Air cooled oil reservoir with Lubricating ring [] Forced Oil Lubrication with air cooled radiator	Forced Oil Lubrication with air cooled radiator
	Oil Capacity [Liter]	By Vendor	9L/min
	Permissible Trust Force [N]	By Vendor	Will be filled
	Max. Normal Operating Temperature	By Vendor	90°C
72	Bearing (NDE)		
	Type (Detail Description by Vendor)	[] Anti friction (Ball Bearing) [] Antifriction (Roller Bearing) [X] Sleeve (Spherical self aligned)	Confirmed
	Manufacturer	By Vendor	Chinese brand -Nanyang
	Minimum Life Without Load	Minimum 100,000 Hours	Confirmed
	Minimum Life With Load	By Vendor	Will be filled

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)																									
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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
V03	0001	DS	EL	120	HY	GCS	BK																			

Item	Category	Required Specification	Vendor Data
	Lubrication	Oil (Specification must be specified by manufacturer)	Forced Oil Lubrication with air cooled radiator
	Oil Capacity [Liter]	By Vendor	9L/min
	Permissible Trust Force [N]	Shall meet coupled machine trust	Will be filled
	Max. Normal Operating Temperature	By Vendor	90°C
73	DE Bearing Temperature Sensor / Meter	☐ Not Required ☐ PTC ☒ RTD ☒ Thermometer (Dial) ☐ Temperature Switch	☒ RTD
74	NDE Bearing Temperature Sensor	☐ Not Required ☐ PTC ☒ RTD ☒ Thermometer (Dial) ☐ Temperature Switch	☒ RTD
75	Winding Temperature Sensor	☐ Not Required ☐ PTC ☒ RTD (9 RTD's 3 per phase)	☒ RTD (9 RTD's 3 per phase)
76	Space Heater	Required	Yes
	Space Heater Voltage [V]	230VAC, 50Hz, 1Ph	Confirmed
	Space Heater Power [W]	By Vendor	1000
77	Terminal Boxes	☒ MV main Terminal Box ☒ Space heater / RTD's / Switches Terminal Box	MV main Terminal Box Space heater and RTD Terminal Box
78	Main Power Cable Specification & Size & Orientation	According to BK-GCS-PEDCO-120-EL-CN-0003	M90
79	Method of Cable Entry	☒ Cable Gland ☐ Sealing Gasket	Confirmed
80	Short Circuit Capability of Terminal Box	25 kA for 0.2 S	N.A
81	Power terminal box connection method	Motor & Supply wires with cable shoe to be fixes on suitable post insulators	Confirmed
82	Sound Level at 1 distance (m) From Motor	Max. 85 dB(A)	≤85
83	Finish Color	Manufacturer Standard	RAL5012
84	Test & Inspection Routine tests including: a) Insulation resistance test on windings, heaters, temperature detectors and bearing insulations b) Measurement of winding resistance (cold) c) Measurement of winding resistance (hot) d) Bearing temperature rise e) No load current	For P≤500kW Witness on test of all motors[X] Report of test of all motors[X] For P>500kW Witness on test of all motors[X] Report of test of all motors[X]	As per ITP

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	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	GCS	HY	120	EL	DS	0001	V03

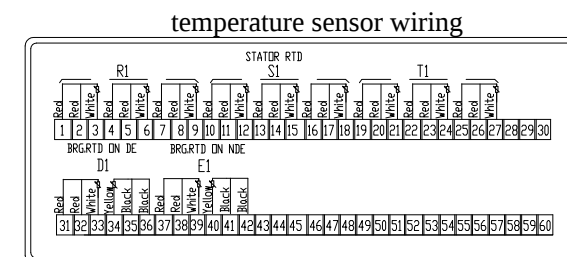
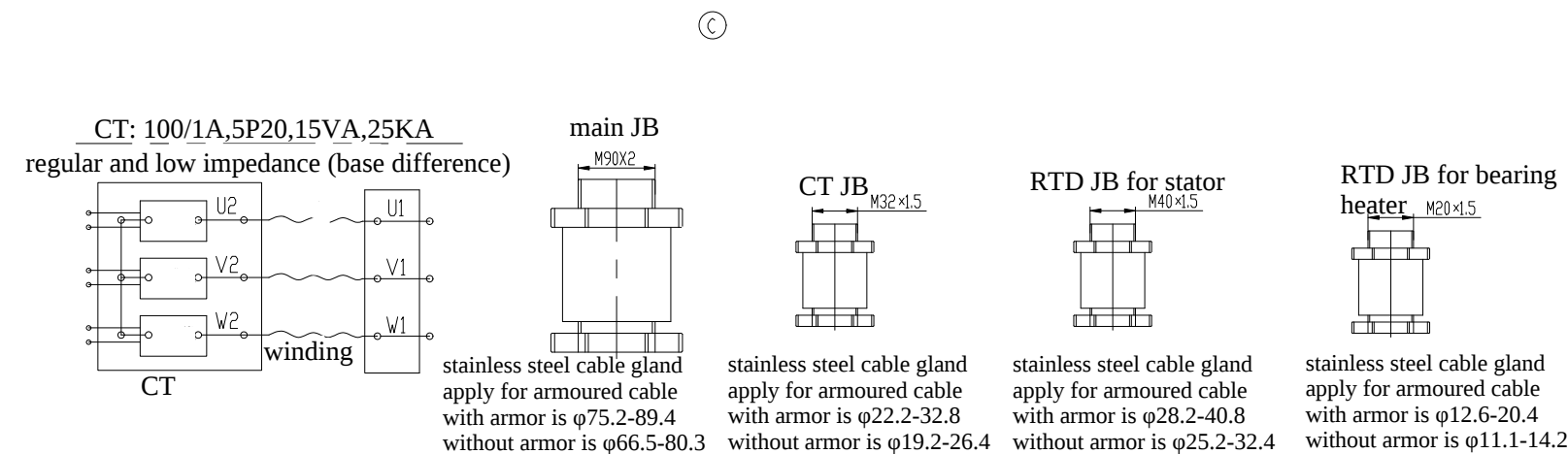
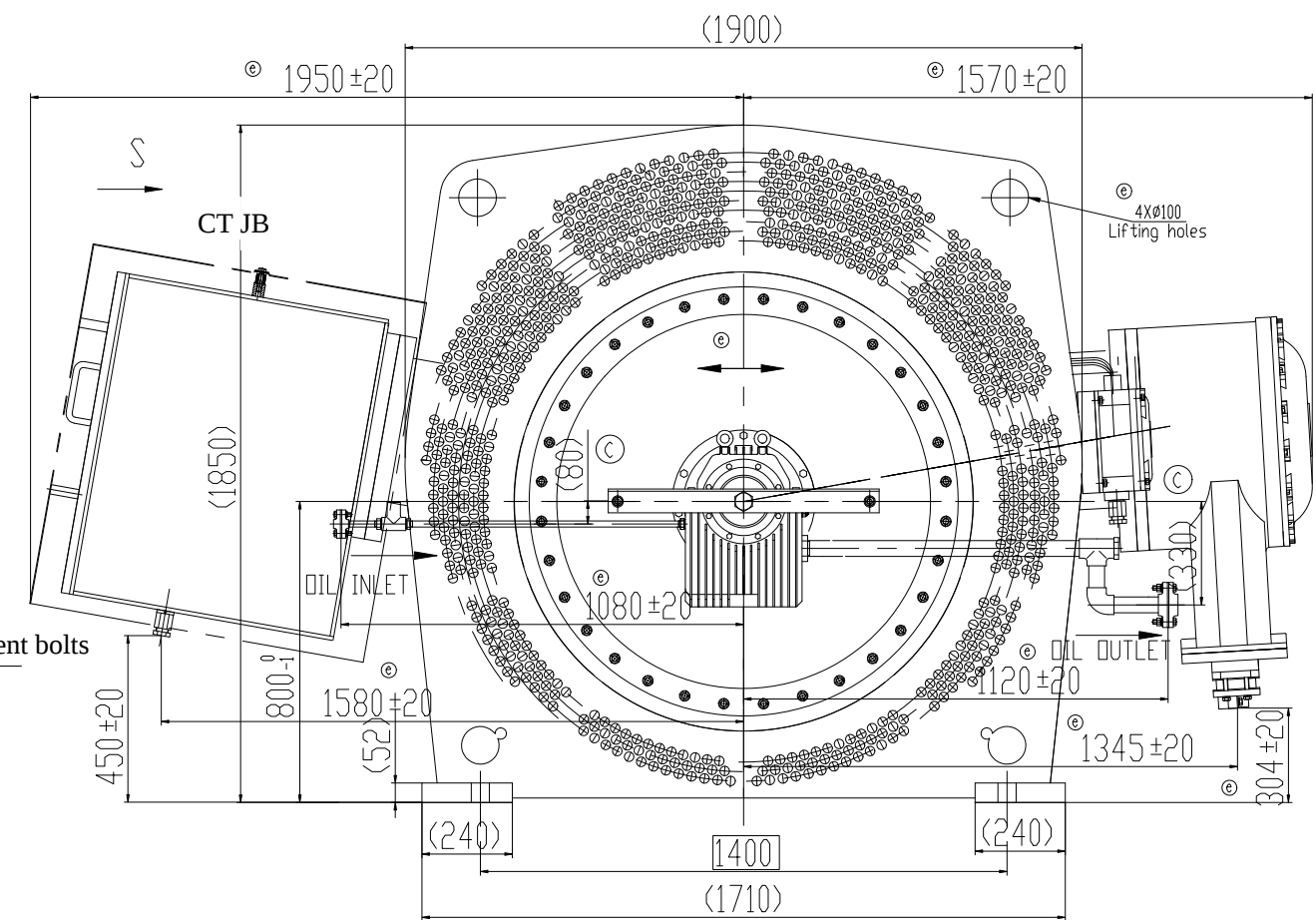
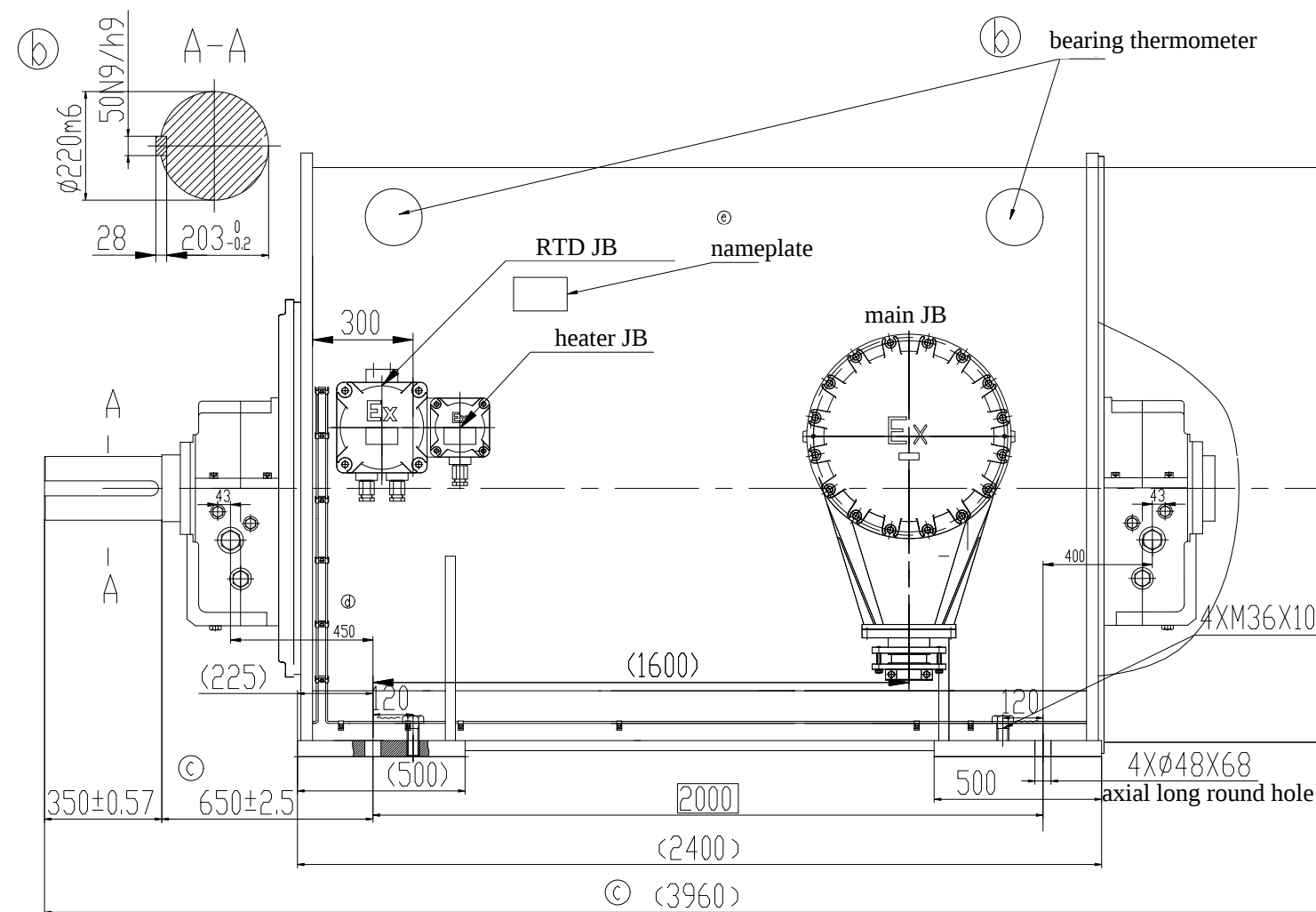
Item	Category	Required Specification	Vendor Data
	f) Current unbalance at full load g) Locked rotor current (at full or reduced voltage) h) Locked rotor torque (at full or reduced voltage) i) Torque speed curve j) No load losses k) Direction of rotation l) Slip and nominal speed and full load m) Vibration severity n) Noise test o) bearings inspection Type test: p) Heat run test	For P<=1000kW Report of test of one identical motor[X] For P>1000kW Witness on test of One project motor[X] Report of test of above mentioned test[X]	

Note1: Motor with differential protector, transformation ratio : 100/1A 5P20 15VA, 25KA.



Data sheet

Product number	: YBXKK800-14
Product group	: Explosion-proof motor
Standard	: IEC/GB IE3
Frame construction	: Casting steel
Rated output	: 1070kW
Rated speed	: 424rpm (Synchronous speed 428r/min)
Number of poles	: 14
Rated voltage	: 11000V $\pm$ 10%
Current	: 81.7A
Stator connection	: Y
Rated frequency	: 50Hz $\pm$ 5%
Service factor	: 1
Duty	: S1
Efficiency	: 94.2%
Power factor	: 0.73
Locked torque / rated torque	: 0.6
Locked current / rated current	: 6
Max torque / rated torque	: 2.0
Start	: DOL start
Thermal class	: F(155°C) and temp. rise B @ site condition
Ambient temperature	: 5~55°C
Altitude	: $\leq$ 1000m
Type of construction	: IM B3
Degree of protection	: IP55
Cooling method	: IC511
Bearing design	: Slide bearing (Chinese brand)
Bearing model	: DQ22-225A(DE), DQ22-225AJ(NDE)
Lubrication	: ISO VG100# : forced lubrication oil consumption: 4L/min; bearing oil inlet temperature: $\leq$ 60°C; pressure 0.01~0.03MPa
Direction of rotation	: Bi-direction
Temperature sensor-winding Temperature sensor-bearings	: 3RTD for each phase. alarm 135°C, stop 145°C 2RTD for each bearing. alarm 90°C, stop 95°C
Space heater	: 1000W, 230V
Weight	: 16.5t
Ex grade	: Ex db IIB T4 Gb (no purging device)
Environment	: Outdoors
Noise	: 85dB(A)
Color	: RAL5012 or specified by client
Static load	: 39.2kN
Dynamic load	: 43kN
Vibration sensor	: N.A (reserve hole M8*1.25 for DE and NDE, each 1)
CT	: 100/1A 5P20 15VA, 25KA
Rated torque	: 24100Nm



TECHNICAL DATA

1.PRODUCT FEATURE

1.RATED VOLTAGE : 11kV 2.RATED FREQUENCY :50Hz 3.MOUNTING ARRANGEMENT : IMB3

4.COOLING METHOD : IC511 5.DEGREE OF PROTECTION : IP55 6.INSULATION CLASS : 155(F)

7.DUTY : S1 8.CONNECTION METHOD : Y CONNECTION 9.VIBRATION : ≤2.3mm/s

10.EXPLOSION-PROOF GRADE:Exdb II BT4 Gb 11.AMBIENT TEMPERATURE:5-55°C

12.BEARING AND LUBRICATION

SLEEVE BEARING.

BEARING TYPE:1)DE DQ22-225A 2)NDE DQ22-225AJ

LUBRICATION TYPE:OIL OIL TYPE:ISO VG100

OIL SUPPLY PRESSURE :0.01-0.03MPa OIL INLET TEMP :≤60°C OIL FLOW :4L/min/BEARING

OIL INLET FFLANGE : ASME B16.5 150LB NPS3/4 SW/RF

OIL RETURN FLANGE : ASME B16.5 150LB NPS2 SW/RF

13.TEMPERATURE DETECTOR BASED ON CUSTOMER'S REQUIREMENT

1. STATOR

RTD :pt100 (3-WIRE)

RANGE :0-200°C

ALARM :135°C TRIP :145°C

NO. :9

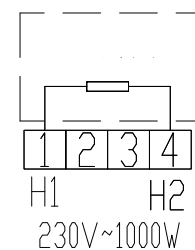
2. BEARING

RTD :pt100 (DOUBLE pt100 6-WIRE)

RANGE :0-200°C

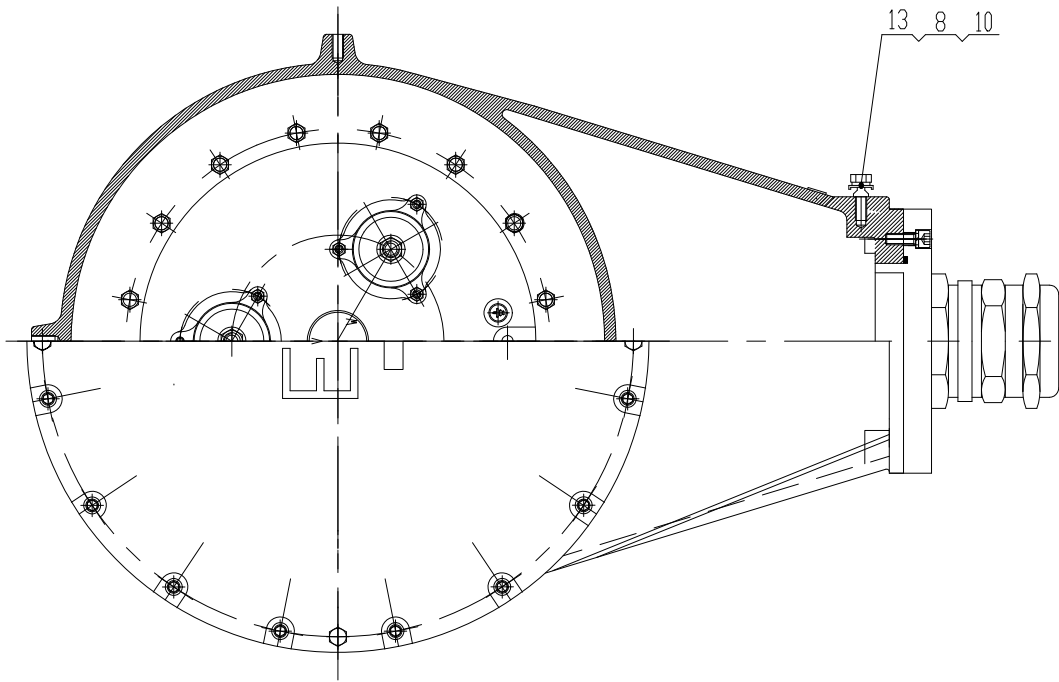
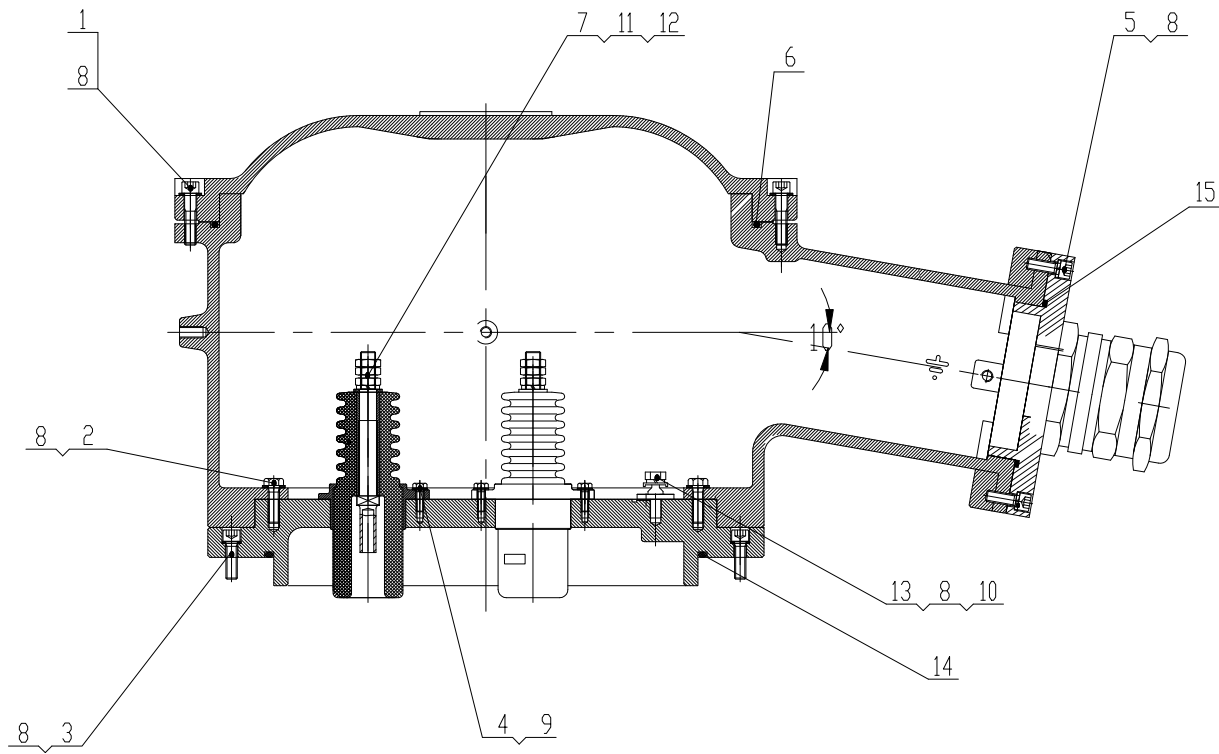
ALARM :90°C TRIP :95°C

NO. :4 (TWO DUPLEX PER BEARING)



d	CT /VB	Liu Congshuai	20240226	202311ZX-B061	<table><tr><td colspan="3">图 样 标 记</td><td>重 量</td><td>比 例</td></tr><tr><td></td><td></td><td></td><td>见表</td><td>1:20</td></tr><tr><td colspan="3">共 1 页</td><td colspan="2">第 1 页</td></tr><tr><td colspan="5">卧龙电气南阳防爆集团股份有限公司</td></tr></table>					图 样 标 记			重 量	比 例				见表	1:20	共 1 页			第 1 页		卧龙电气南阳防爆集团股份有限公司				
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			见表							1:20																			
共 1 页			第 1 页																										
卧龙电气南阳防爆集团股份有限公司																													
c	According to requirements	Liu Congshuai	20240131																										
b	According to requirements	Liu Congshuai	20231206																										
a	According to requirements	Liu Congshuai	20231206																										
MARK/CHANGE COMMENT		SIGN	DATE	YBXKK800-14 1070kW 11kV																									
DESIGN	Liu Congshuai			11kV dIIB IP55																									
CHECK	Li Lingge																												
		APPRO	Wang Xincheng																										
		DATE	20231122																										

04P.330.1581



15	83704659-01	Sealing ring	
14	83704659-04	Sealing ring	
13		Bolt M12X25	A2-70
12		Nut M16	A2-70
11		Washer 16	65Mn nickel plating
10		Washer 12	H62 silver plating
9		Washer 8	65Mn nickel plating
8		Washer 12	65Mn nickel plating
7		Nut M16	C12 silver plating
6	83704659-05	Sealing ring	
5		Screw M12X35	A2-70
4		Bolt M8X25	A2-70
3		Screw M12X40	A2-70
2		Bolt M12X40	A2-70
1		Screw M12X55	A2-70
Serial NO.	Code	Name	Material

						202311ZX-B061	
						MAIN TERMINAL BOX	
							DWG MARK
							W T SCALE
							1:12
DESIGN	LIU CS	STD				YBXKK800-14 1070kW 11kV 50Hz	WOLONG CNE
REVIEW	LI LG	APPR					
REVIEW		APPR	WANG XC				
C-SIGN		DATE	20230408				

借(通)用件登记
描 图

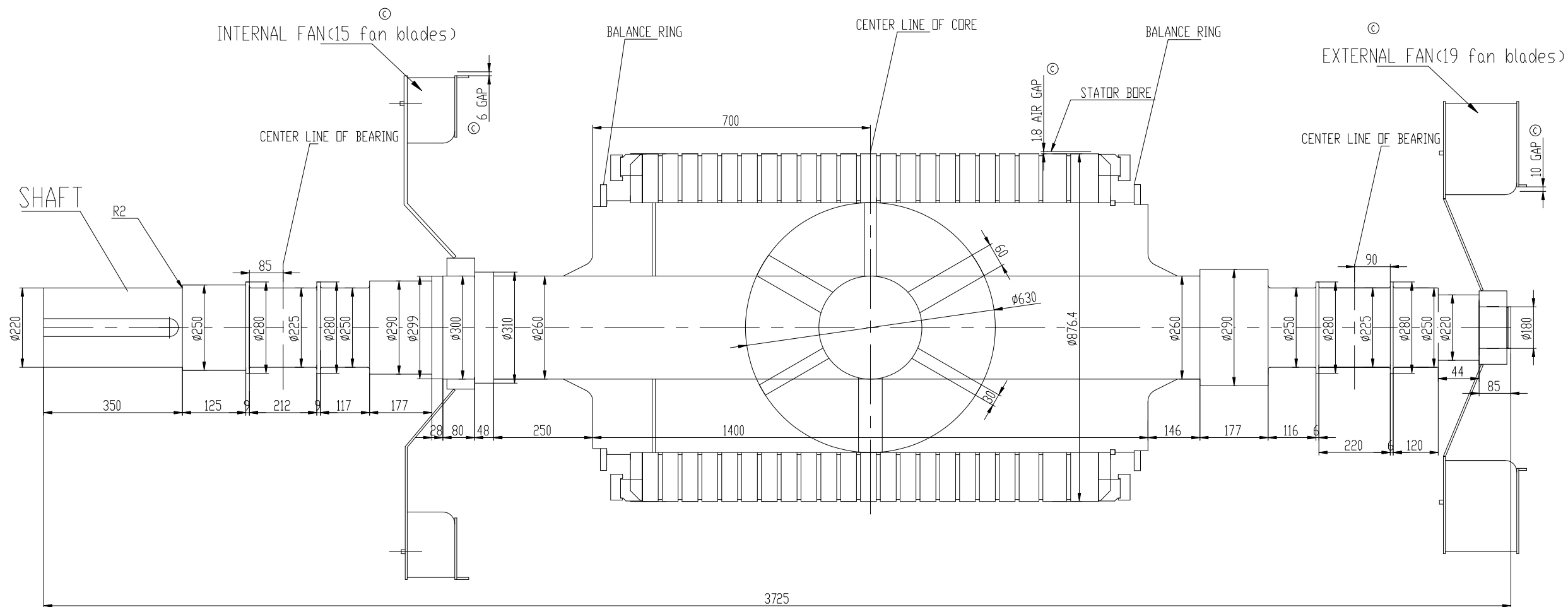
描 校

旧 底 图 总 号

底 图 总 号

签 字

日 期



NAME	WEIGHT (kg)	MOMENT OF INERTIA J(kg.m ²)
SHAFT	2038	40.5
COPPER ROTOR	2499	361
INTERNAL FAN	157	30
EXTERNAL FAN	139	24
BALANCE RING	33X2	2X2
WHOLE ROTOR	4899	459.5

NOTE

- 1.Shaft material:42CrMo, density: $7.85 \times 10^3 \text{ kg/m}^3$
- 2.Tensile stength 900MPa min
- 3.Yield stength 550MPa min
- 4.Shaft stiffness(N.m/RAD): 19.020×10^6
Between drive end side and centerline of core.
- 5.Shearing modulus:81GPa

借(通)用件登记
描 图
描 校
旧 底 图 总 号
底 图 总 号
签 字
日 期

					202311ZX-B061						
c	adjustable data	LIU CS	20240408	SHAFT	YBXKK800-14 1070kW 11kV 50Hz	DWG MARK			W T	SCALE	
b	adjustable data	LIU CS	20240131							1:12	
a	adjustable data	LIU CS	20240126								
DESIGN	LIU CS	STD									
REVIEW	LI LG	APPR									
REVIEW		APPR	WANG XC								
C-SIGN		DATE	20231222			WOLONG CNE					

 a WOLONG company		High-voltage Flameproof Three-phase Induction Motor		Ex 	
TYPE	YBXKK800-14THWF2	STANDARD NO.	GB755	RATED FREQUENCY	50 Hz
RATED POWER	1070 kW	RATED VOLTAGE	11000 V	FREQUENCY RANGE	— Hz
RATED CURRENT	81.7 A	POWER FACTOR $\cos\phi$	0.73	THERMAL CLASS	F
RATED SPEED	424 r/min	NOISE VALUE	85 dB(A)	EFF.	94.2 %
BRG. DE.	—	BRG. NDE.	—	DUTY S1	CONN. Y
PROTECTION TYPE	Ex dIb IIB T4 Gb	PROTECTION DEGREE	IP 55	I_A/I_N	t_E — S
CERTIFICATE NO.	SHExC23.3195X	COOLING METHOD	IC 511	MASS	kg
SAFETY NO.	—	SERIAL NO.	24B5C65AN000	DATE	
WOLONG ELECTRIC NANYANG EXPLOSION PROTECTION GROUP CO., LTD.					

BRG.DE		BRG.NDE	
BEARINGS		DQ22-225A DQ22-225AJ	
OIL		ISO VG100	
INLET PRESSURE		0.01-0.03 MPa 0.01-0.03 MPa	
MANDATORY OIL FILLING		4 L/min	4 L/min

50

80

