

N.J MOTOR AND SERVICES CO.,LTD

บริษัท เอ็น.เจ. มอเตอร์ แอนด์ เซอร์วิส จำกัด



มาตรฐานงานซ่อมมอเตอร์ระดับสากล

และคุณภาพงานบริการ



We Provide Professional Motor & Equipment Services

Motor, Pump and Blower Service

- Overhaul
- Rewinding

On-site Services

- Field Balance
- Installation,
Alignment

Commissioning & Testing

Perventive & Condition-Based Maintenance

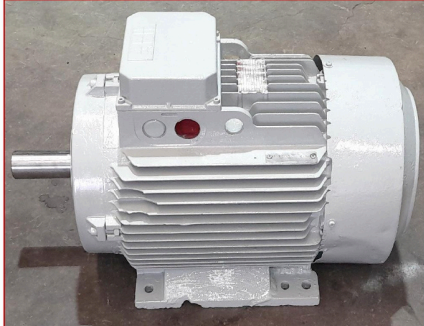

One Stop Service for Rotating Equipment

Experienced technicians
ทีมช่างผู้เชี่ยวชาญ มีประสบการณ์

Standard-based service (EASA)
การให้บริการตามมาตรฐานสากล

Complete testing report
มีรายงานผลการทดสอบ



SERVICE REPORT		
CUSTOMER NAME : บริษัท เจริญรุ่งเรือง จำกัด สำนักงานใหญ่		
MOTOR TYPE : AC MOTOR BRAND ASEA		
MOTOR TAG : M-180-18.5-4-04 MOTOR PUMP DUMP CHEST # 1 (STOCK LINE # 3)		
JOB NO. : 240625-016		
WORK DESCRIPTION : OVERHAUL AC MOTOR 18.5 KW 1470 RPM		
Table of contents		
Item No.	Descriptions	Page
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2)	PHOTOGRAPHS	4 - 5
		
Approved By : S.Veerapong	Incoming Date : 10-06-2025	Job Number : NJ2506-1-039
QC By : S.Visit	Final Date : 18-07-2025	Report Date : 19-07-2025
		
N.J.MOTOR AND SERVICES CO.,LTD. (HEAD OFFICE) 88/1 Moo 1, Khokkrabue, Muang Samutakorn , Samutakorn 74000 Tel : 080-8743820		

Mechanical Inspection & Quality Control

แบบฟอร์มตรวจสอบสภาพมอเตอร์ก่อน/หลังซ่อม

MECHANICAL INSPECTION SHEET ใช้ตรวจทุกชิ้นส่วนสำคัญของมอเตอร์/ปั๊ม

MECHANICAL INSPECTION SHEET		เบอร์สั่ง
MECHANICAL INSPECTION		
1. Bearing DE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
2. Bearing NDE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
3. Oil Seal DE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
4. Oil Seal NDE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
5. V-Ring DE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
6. V-Ring NDE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> Customer Supply	Brand : _____ No. : _____
7. สึกเหล็ก DE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน	Size : _____
8. สึกเหล็ก DE	<input type="checkbox"/> ไขของเดิม <input type="checkbox"/> เปลี่ยน	Size : _____
9. Housing DE	<input type="checkbox"/> OK <input type="checkbox"/> มีปลอก <input type="checkbox"/> พนพลก <input type="checkbox"/> ชัดผ่า	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
10. Housing NDE	<input type="checkbox"/> OK <input type="checkbox"/> มีปลอก <input type="checkbox"/> พนพลก <input type="checkbox"/> ชัดผ่า	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
11. Shaft DE	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก <input type="checkbox"/> เปลี่ยน	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
12. Shaft NDE	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก <input type="checkbox"/> เปลี่ยน	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
13. Shaft oil seal DE	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
14. Shaft oil seal NDE	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
15. Shaft run out	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
16. ปลายเพลลา	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
17. ร่องถึมปลายเพลลา	<input type="checkbox"/> OK <input type="checkbox"/> หัวร่องถึม <input type="checkbox"/> เปลี่ยนค่านร่องถึม	ขนาด : _____
18. ถึม	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____
19. Pulley	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> เสมอเพลลา <input type="checkbox"/> เพลลาสิค <input type="checkbox"/> เพลลาขาว	
20. Coupling	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> เสมอเพลลา <input type="checkbox"/> เพลลาสิค <input type="checkbox"/> เพลลาขาว	
21. ฐ Coupling,Pulley	<input type="checkbox"/> OK <input type="checkbox"/> เชื่อมพลา <input type="checkbox"/> พนพลก <input type="checkbox"/> เปลี่ยน	ค่าที่วัดได้ : _____ ค่าที่ต้องการ : _____
22. ลูกยาง Coupling	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ วัสดุ : _____
23. Cooling fan	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ วัสดุ : _____
24. Cover fan	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ วัสดุ : _____
25. Wave spring	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ จำนวน : _____
26. Lubricant	<input type="checkbox"/> ไนมี <input type="checkbox"/> Shell No. 2 <input type="checkbox"/> Shell No. 3 <input type="checkbox"/> Shell 68 <input type="checkbox"/> Shell 220 <input type="checkbox"/> Shell 320	จำนวน : _____
27. หัวยึดจาวระดับ	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ จำนวน : _____
28. Eye Bolt	<input type="checkbox"/> OK <input type="checkbox"/> ไนมี <input type="checkbox"/> เปลี่ยน	ขนาด : _____ จำนวน : _____
29. ประเก็น	<input type="checkbox"/> OK <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> กระดาษ <input type="checkbox"/> ยางดำ	ขนาด : _____ จำนวน : _____
30. ยางโอริง	<input type="checkbox"/> OK <input type="checkbox"/> เปลี่ยน <input type="checkbox"/> กลม <input type="checkbox"/> แบน	ขนาด : _____ จำนวน : _____
31. Machanical seal	<input type="checkbox"/> ไนมี <input type="checkbox"/> ไขของเดิม <input type="checkbox"/> car/cer <input type="checkbox"/> sic/sic <input type="checkbox"/> tc/tc <input type="checkbox"/> NBR <input type="checkbox"/> VITON	ขนาด : _____
32. Balance Rotor	<input type="checkbox"/> ทำ <input type="checkbox"/> ไนทำ <input type="checkbox"/> Dynamic <input type="checkbox"/> Field Balance	
33. ทำสี	<input type="checkbox"/> ทำ <input type="checkbox"/> ไนทำ	สีที่อ : _____ เบอร์ : _____
รายการซ่อมเพิ่มเติม : _____		
CHECK BY : _____		
ชื่อผู้ประกอบ : _____		

- Bearing
- Oil seal
- V-ring
- Housing
- Shaft Bearing
- Shaft Oil seal
- Shaft Run out
- ปลายเพลลา
- ร่องถึม/ถึม
- Pulley
- Coupling
- Cover fan
- Cooling fan
- Wave spring
- Lubricant
- Eye Bolt
- O-ring
- Mechanical seal
- Balance Rotor
- ทำสี



2

มาตรฐานงานซ่อม

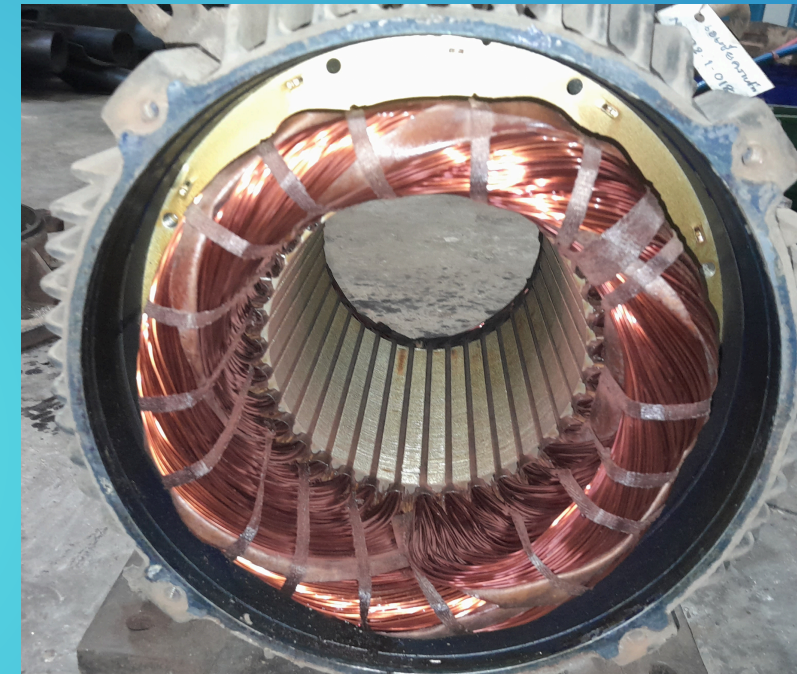
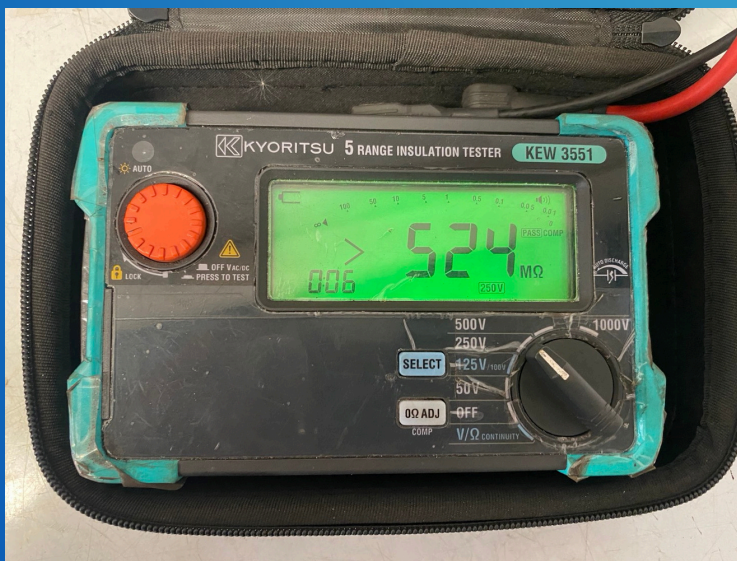
การตรวจเช็คความเสียหายทางขดลวด



การตรวจเช็คค่าทางไฟฟ้า

1. Resistance Test การทดสอบความต้านทาน
2. Inductance Test การทดสอบความเหนี่ยวนำ
3. Insulation Test ทดสอบคุณภาพความเป็นฉนวน
4. Surge Comparison Test เครื่องทดสอบขดลวดและฉนวน

Visual Inspection of winding condition การตรวจสอบขดลวดด้วยสายตา



3

มาตรฐานงานซ่อม

กระบวนการถอดและทำความสะอาด



BEFORE

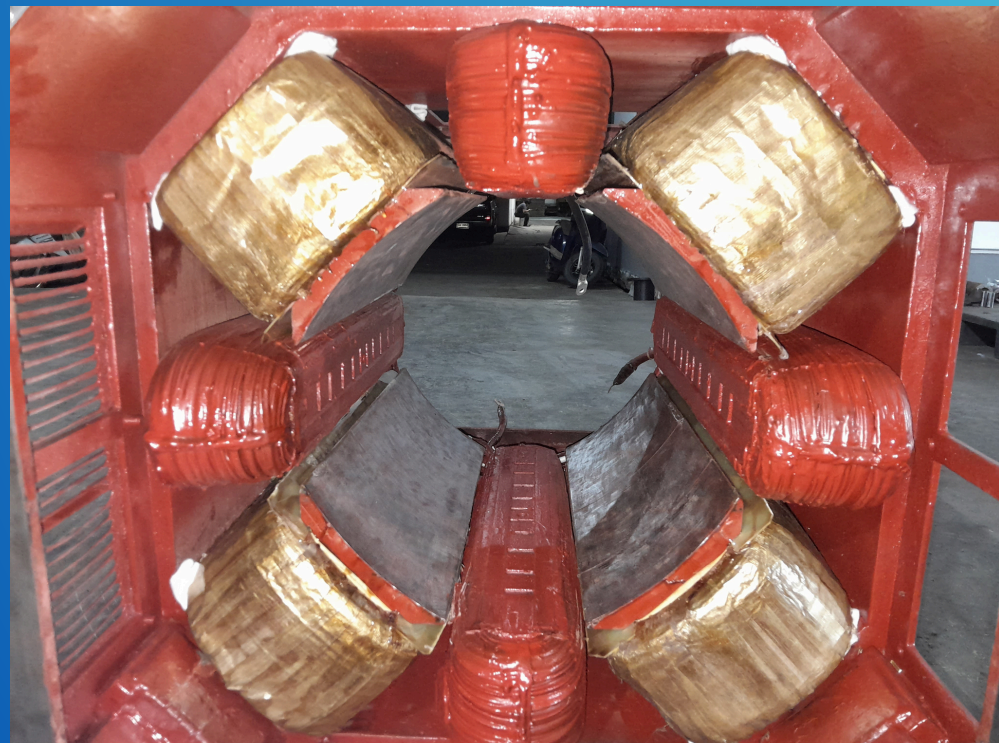


AFTER



4

มาตรฐานงานซ่อม การพันขดลวดตามมาตรฐาน



รายละเอียดขดลวด (Winding Data)



GP/MR-EXTRA® Magnet Wire | Winding Wire



NEMA MW 37-C, MW 38-C, MW 73-C

Thermal Class	220°C
Conductor	Copper
Shape	Round, Square, Rectangular
Insulation Material	Polyester/Polyamide-imide
Size Range	Round Single Build: 14-33 AWG Round Heavy Build: 4-33 AWG Square and Rectangular: Please consult Essex Magnet Wire Marketing for additional sizes (including metric) and build information.
Key Applications	Form Wound Coils Fractional and Integral HP Motors Hermetic Motors DC Motors Automotive Alternators and Generators All Dry Type Transformers Electronics, Power Tools

PRODUCT DESCRIPTION

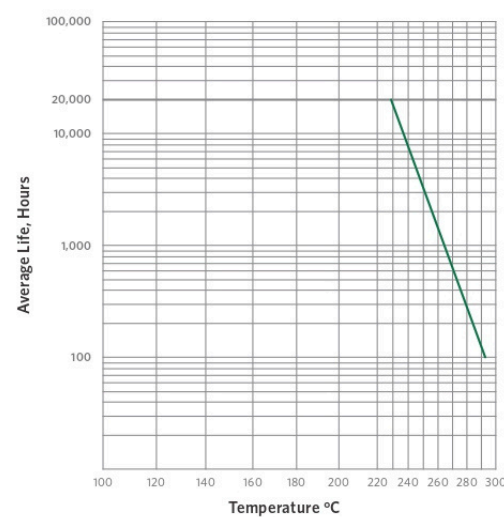
GP/MR-EXTRA® has an improved insulation system that has been engineered to enhance adhesion, scrape abrasion, and chemical resistance with improved thermal properties. GP/MR-EXTRA® is manufactured utilizing THEIC Polyester basecoat in conjunction with a tough, thermally stable Polyamide-imide topcoat polymer. Changes to the THEIC Polyester basecoat and to the Polyamide-imide topcoat provide a product with abrasion resistance and thermal capability.

FEATURES AND BENEFITS

Thermal Classification	GP/MR-EXTRA® magnet wire is classified as Class 220°C on Copper conductor.
Thermoplastic Flow	GP/MR-EXTRA® Copper magnet wire has excellent thermoplastic flow (cut-thru) properties, with typical test values near 390°C.
Windability	The windability of GP/MR-EXTRA® magnet wire is excellent, and has been improved in the areas of lubricity and scrape resistance. This has been accomplished without sacrificing other key thermal and chemical properties.
Electrical	GP/MR-EXTRA® magnet wire insulation exhibits high dielectric strength retention under high moisture conditions. Hydrolysis resistance is excellent.
Chemical	As shown by property data presented elsewhere in this brochure, resistance of GP/MR-EXTRA® magnet wire to both traditional refrigerants and replacement refrigerants (for CFC's and HCFC's) is excellent. GP/MR-EXTRA® magnet wire has been used in hermetic applications virtually since its inception.
Stripping Method	Insulation piercing, mechanical stripping, hot staking and flame welding processes can all be used with GP/MR-EXTRA® magnet wire. If the connection is to be soldered, the insulation must be removed prior to soldering.
Normal Availability	<ul style="list-style-type: none"> Round Copper Sizes: 14-33 AWG, Single Build 4-33 AWG, Heavy Build Square and Rectangular Please consult Magnet Wire Marketing for additional sizes (including metric) and build information

THERMAL ENDURANCE

18 AWG Heavy Build CU



GP/MR-EXTRA® Magnet Wire | Winding Wire

PROPERTIES

	TEST DETAILS	TYPICAL PERFORMANCE*	REQUIRED PERFORMANCE**	
THERMAL				
Heat Shock Resistance	20% Elongation, 3xD	300°C x 0.5hr, no cracks	240°C x 0.5hr, no cracks	
Thermal Endurance	20,000 hrs, per ASTM D 2307	228°C	≥ 220°C	
Thermoplastic Flow	Crossing method, 5°C/minute rise rate	393°C, 2kg weight	≥ 325°C, 2kg weight	
PHYSICAL				
Abrasion Resistance	Unidirectional Scrape	2088g	≥ 980g ≥ 1150g avg	
	Repeated Scrape	211 strokes, 700g weight	-	
Adherence and Flexibility	20% Elongation, mandrel wrap, 3xD	No cracks	No cracks	
Coefficient of Friction	Dynamic Coefficient of Friction per MW 750	Dry Lube: .02 - .06	-	
Elongation	Elongate to break	38%	≥ 32%	
Springback	Mandrel wrap	54°	≤ 58°	
ELECTRICAL				
Continuity	100 ft, graphite fiber brush	≤ 1 fault @ 1500 VDC	≤ 5 fault @ 1500 VDC	
Dielectric Breakdown Voltage	Room Temperature Twisted pairs @ ambient	15,000 volts	≥ 5,700 volts	
	Rated Temperature Twisted pairs @ 220°C	12,000 volts	≥ 4,275 volts	
CHEMICAL				
Solubility	Immersed in 60°C Xylene solvent x 0.5hr, needle scrape	Passes	≥ 575g	
	Immersed in 60°C Xylene/Butyl solvent x 0.5hr, needle scrape	Passes	≥ 575g	
Other Solvents	Petroleum naphtha, 3% toluene, ethanol, 5% sulfuric acid, 1% potassium hydroxide, butyl acetate, acetone for 24 hours at room temperature	Passes	≥ 575g	
Refrigerant Resistance	Refrigerant			
	Extraction	≤ 85% of refrigerant critical pressure x 6 hour, collect residue, measure percent of insulation weight loss	R22	0.02%
			R134a	0.04%
	Dielectric Breakdown after Conditioning	Twisted pairs, exposed to refrigerant at 75-85% of critical pressure x 72 hours	R22	9,200 volts
		R134a	14,900 volts	

* Performance data is representative of 18 AWG heavy build Copper magnet wire where applicable.

** Requirements for 18 AWG heavy build per NEMA MW 37, MW 38 and MW 73.

รายละเอียดขดลวด (Winding Data)



UltraShield® Plus Magnet Wire | Winding Wire



NEMA	MW 35-C, MW 73-C
Thermal Class	Class 200
Conductor	Copper
Shape	Round
Insulation Material	Polyester/Polyamide-imide
Size Range	9-30 AWG, Heavy Build
Key Applications	Inverter Duty Drive Motors Rotating Machines Hermetic Motors DC Motors Power Tools Automotive Alternators and Generators Transformers, All Dry Types through Class 200 Electronics, All Types of Coils through Class 200

PRODUCT DESCRIPTION

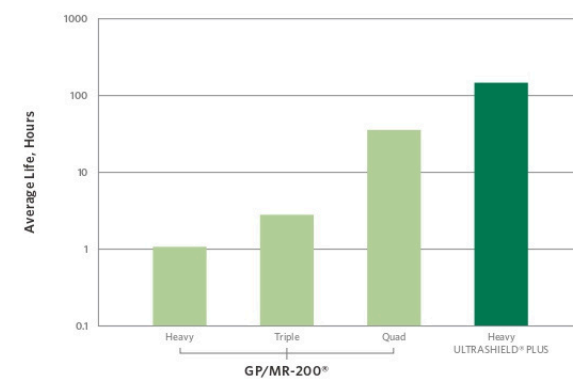
UltraShield® Plus magnet wire, which is specifically designed for use in motors that may be subjected to higher voltage spikes present in inverter duty applications, exhibits excellent resistance to partial discharges and abrasion. The combination of the modified Polyester basecoat and Polyamide-imide topcoat provides an insulation system with outstanding toughness and excellent dielectric properties. UltraShield® Plus magnet wire has improved voltage endurance and thermal properties, compared to standard NEMA MW 35-C magnet wire, while retaining superior chemical resistance to common solvents and refrigerants. UltraShield® Plus conforms to all of the requirements of NEMA MW 35-C and MW 73-C.

FEATURES AND BENEFITS

Thermal Classification	UltraShield® Plus magnet wire is UL listed at Class 200, and is recommended for NEMA MW 35-C and MW 73-C wire applications.
Thermoplastic Flow	390°C
Solderability	N/A
Windability	UltraShield® Plus magnet wire has been extensively wound in various motor applications and has been highly commended for its superior windability performance.
Electrical	Testing with sinusoidal and with inverter wave shapes shows that UltraShield® Plus magnet wire lasts many times longer than standard NEMA MW 35-C and MW 73-C insulation. While no standards for this type of testing have been universally accepted, our testing shows dramatic improvement in insulation life, especially under severe duty applications at higher temperatures.
Chemical	UltraShield® Plus magnet wire has been tested for resistance to R-22 refrigerant and the results show it to be compatible for hermetic systems. Successful results are also seen with samples tested for 24 hours at room temperature in a wide variety of other solvents such as petroleum naphtha, toluene, ethanol, 5% sulfuric acid, 1% potassium hydroxide, butyl acetate, and acetone.
Stripping Method	Insulation piercing, mechanical stripping, and flame welding processes can all be used successfully with UltraShield® Plus magnet wire. If the connection is to be soldered, it is recommended that mechanical stripping be used to remove the insulation prior to soldering.
Normal Availability	<ul style="list-style-type: none"> Round Copper Sizes: 9 - 30 AWG, Heavy Build Please consult Magnet Wire Marketing for additional size (including metric) and build information.

INVERTER LIFE TESTING

150°C, 575V Inverter with 18AWG Twisted Pairs



UltraShield® Plus Magnet Wire | Winding Wire

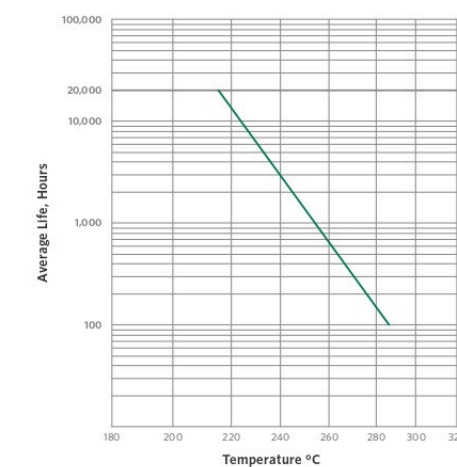
PROPERTIES

	TEST DETAILS	TYPICAL PERFORMANCE*	REQUIRED PERFORMANCE**
THERMAL			
Heat Shock Resistance	20% Elongation, 3xD mandrel wrap	No topcoat or basecoat cracks	220°C x 0.5hr, no cracks
Thermal Endurance	20,000 hrs, per ASTM D 2307	215°C	≥ 200°C
Thermoplastic Flow	Crossing method, 5°C/minute rise rate	> 380°C, 2kg weight	≥ 300°C, 2kg weight
PHYSICAL			
Abrasion Resistance	Unidirectional Scrape	2,100g	≥ 1,150g avg
	Repeated Scrape	> 300 strokes, 700g weight	-
Adherence and Flexibility	20% Elongation, 3xD mandrel wrap	No topcoat or basecoat cracks	no cracks
Elongation	Elongate to break	38%	≥ 32%
Springback	Mandrel wrap	48°	≤ 58°
ELECTRICAL			
Continuity	100 ft, graphite fiber brush	≤ 1 fault @ 1,500 VDC	≤ 5 fault @ 1,500 VDC
Dielectric Breakdown Voltage	Twisted pairs @ ambient	12,900 volts	≥ 5,700 volts
Dielectric Breakdown Voltage at Rated Temperature	Twisted pairs @ 200°C	10,900 volts	≥ 4,275 volts
CHEMICAL			
Solubility	Immersed in 60°C solvent x 0.5hr, needle scrape	Passes	No exposed bare conductor
Refrigerant Resistance	Weight loss after refrigerant exposure	0.02%	≤ 0.25%
	Dielectric breakdown voltage after refrigerant exposure	11,600 volts	≥ 5,700 volts

* Performance data is representative of 18 AWG heavy build copper magnet wire where applicable. ** Requirements for 18 AWG heavy build per NEMA MW 35-C or MW 73-C.

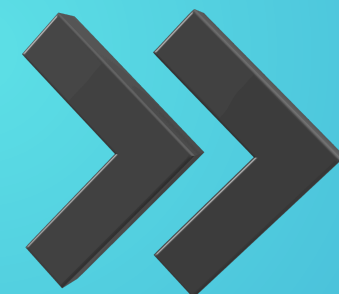
THERMAL ENDURANCE

18 AWG Heavy Build



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มาตรฐานงานซ่อม การอบวานิช (Varnish)



Temperature: 120–160°C

Time: 2–6 hours

Typical: 130°C / 3–4 hours

Cure

Time	Units	Temperature	Units
4	Hours	130	°C
2	Hours	160	°C

System Specifications

Property	Conditions	Method	Value	UM
Viscosity	25°C	BS B4 Cup	90 - 140	seconds
Non-Volatile Content		AEV STM*	45 - 50	%
Specific Gravity	25°C	AEV STM*	0.89 - 0.93	
Flash Point		CC	40	°C
Shelf Life	20°C	AEV STM*	24	months

* In line with IEC60464

Typical System Characteristics

Property	Conditions	Method	Value	UM
Bond Strength	25°C	ASTM D115	201	Newtons
	150°C	ASTM D115	18	Newtons
Dielectric Strength	25°C	ASTM D115	1660	V/0.01mm
	24hrs immersion in water		1220	V/0.01mm
Weight Loss	200°C/48hr	ASTM D2756	7.7	%
	200°C/96hr	ASTM D2756	10.6	%

Version 4.0 - 13/09/2022

Email: aev@aev.co.uk
Website: www.theaevgroup.com

Thermal Endurance

Method ASTM D1932 Glass Cloth, Curved Electrode
Intercept 25,000 hours 167°C
According to UL1446 Intercept 20,000 hours on Enamelled Wires

Wire Type	Helical Coil (°C)	Twisted Pair (°C)
MW-28 Class 130°C	130	155
MW-24 Class 155°C	155	180
MW-30 Class 180°C	180	200
MW-16 Class 220°C	220	180

Chemical Resistance

ULTIMEG® 2000/380 shows outstanding resistance to moisture, salt spray, tropical and arctic conditions (according to MIL-I-24092, Grade CB, Type M, Class 155, specification from U.S Navy) and to corrosive environments. It also remains unaffected after direct immersion.

Time	Temperature	Chemical
24 hours	25°C	Acetone
24 hours	25°C	Xylene
24 hours	25°C	Sulphuric Acid
24 hours	25°C	Caustic Soda
48 hours	110°C	Transformer Oil
168 hours	25°C	Kerosene
336 hours	25°C	Synthetic Lubricant

ASTM D-115 on Copper Panels (cured 2 hours @ 150°C)

Version 4.0 - 13/09/2022

Email: aev@aev.co.uk
Website: www.theaevgroup.com

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มาตรฐานงานซ่อม การประกอบและเปลี่ยนอะไหล่



Bearing Fit Standard

ลูกปืนเบ็ดกลม (Ball Bearing)

Table 2-13. RADIAL BALL BEARING FIT TOLERANCES*

Basic Number	Tolerance Class*	Bearing Bore mm	Shaft Fits				Housing Fits (all H6)									
			Shaft Diameter (inches)		Shaft Diameter (mm)		Bearing OD mm	200 Series Housing Bore (inches)		200 Series Housing Bore (mm)		Bearing OD mm	300 Series Housing Bore (inches)		300 Series Housing Bore (mm)	
			Maximum	Minimum	Maximum	Minimum		Minimum	Maximum	Minimum	Maximum		Minimum	Maximum	Minimum	Maximum
00	j5	10	0.3939	0.3936	10.004	9.998	30	1.1811	1.1816	30.000	30.016	35	1.3780	1.3786	35.000	35.016
01	j5	12	0.4726	0.4723	12.005	11.997	32	1.2598	1.2604	32.000	32.016	37	1.4567	1.4573	37.000	37.016
02	j5	15	0.5908	0.5905	15.005	14.997	35	1.3780	1.3786	35.000	35.016	42	1.6535	1.6541	42.000	42.016
03	j5	17	0.6695	0.6692	17.005	16.997	40	1.5748	1.5754	40.000	40.016	47	1.8504	1.8510	47.000	47.016
04	k5	20	0.7878	0.7875	20.011	20.002	47	1.8504	1.8510	47.000	47.016	52	2.0472	2.0479	52.000	52.019
05	k5	25	0.9847	0.9844	25.011	25.002	52	2.0472	2.0479	52.000	52.019	62	2.4409	2.4416	62.000	62.019
06	k5	30	1.1815	1.1812	30.011	30.002	62	2.4409	2.4416	62.000	62.019	72	2.8346	2.8353	72.000	72.019
07	k5	35	1.3785	1.3781	35.013	35.002	72	2.8346	2.8353	72.000	72.019	80	3.1496	3.1503	80.000	80.019
08	k5	40	1.5753	1.5749	40.013	40.002	80	3.1496	3.1503	80.000	80.019	90	3.5433	3.5442	90.000	90.022
09	k5	45	1.7722	1.7718	45.013	45.002	85	3.3465	3.3474	85.000	85.022	100	3.9370	3.9379	100.000	100.022
10	k5	50	1.9690	1.9686	50.013	50.002	90	3.5433	3.5442	90.000	90.022	110	4.3307	4.3316	110.000	110.022
11	k5	55	2.1660	2.1655	55.015	55.002	100	3.9370	3.9379	100.000	100.022	120	4.7244	4.7253	120.000	120.022
12	k5	60	2.3628	2.3623	60.015	60.002	110	4.3307	4.3316	110.000	110.022	130	5.1181	5.1191	130.000	130.025
13	k5	65	2.5597	2.5592	65.015	65.002	120	4.7244	4.7253	120.000	120.022	140	5.5118	5.5128	140.000	140.025
14	k5	70	2.7565	2.7560	70.015	70.002	125	4.9213	4.9223	125.000	125.025	150	5.9055	5.9065	150.000	150.025
15	k5	75	2.9534	2.9529	75.015	75.002	130	5.1181	5.1191	130.000	130.025	160	6.2992	6.3002	160.000	160.025
16	k5	80	3.1502	3.1497	80.015	80.002	140	5.5118	5.5128	140.000	140.025	170	6.6929	6.6939	170.000	170.025
17	k5	85	3.3472	3.3466	85.018	85.003	150	5.9055	5.9065	150.000	150.025	180	7.0866	7.0876	180.000	180.025
18	k5	90	3.5440	3.5434	90.018	90.003	160	6.2992	6.3002	160.000	160.025	190	7.4803	7.4814	190.000	190.029
19	k5	95	3.7409	3.7403	95.018	95.003	170	6.6929	6.6939	170.000	170.025	200	7.8740	7.8751	200.000	200.029
20	k5	100	3.9377	3.9371	100.018	100.003	180	7.0866	7.0876	180.000	180.025	215	8.4646	8.4657	215.000	215.029
21	m5	105	4.1350	4.1344	105.028	105.013	190	7.4803	7.4814	190.000	190.029	225	8.8583	8.8594	225.000	225.029
22	m5	110	4.3318	4.3312	110.028	110.013	200	7.8740	7.8751	200.000	200.029	240	9.4488	9.4499	240.000	240.029
24	m5	120	4.7255	4.7249	120.028	120.013	215	8.4646	8.4657	215.000	215.029	260	10.2362	10.2375	260.000	260.032
26	m5	130	5.1194	5.1187	130.033	130.015	230	9.0551	9.0562	230.000	230.029	280	11.0236	11.0249	280.000	280.032
28	m5	140	5.5131	5.5124	140.033	140.015	250	9.8425	9.8436	250.000	250.029	300	11.8110	11.8123	300.000	300.032
30	m5	150	5.9068	5.9061	150.033	150.015	270	10.6299	10.6312	270.000	270.032	320	12.5984	12.5998	320.000	320.036
32	m5	160	6.3005	6.2998	160.033	160.015	290	11.4173	11.4186	290.000	290.032	340	13.3858	13.3872	340.000	340.036
34	m6	170	6.6945	6.6935	170.040	170.015	310	12.2047	12.2060	310.000	310.032	360	14.1732	14.1746	360.000	360.036
36	m6	180	7.0882	7.0872	180.040	180.015	320	12.5984	12.5998	320.000	320.036	380	14.9606	14.9620	380.000	380.036
38	m6	190	7.4821	7.4810	190.046	190.017	340	13.3858	13.3872	340.000	340.036	400	15.7480	15.7494	400.000	400.036
40	m6	200	7.8758	7.8747	200.046	200.017	360	14.1732	14.1746	360.000	360.036	420	16.5354	16.5370	420.000	420.040

*For hollow shafts, use j6 instead of j5, m5 instead of k5, n6 instead of m5, and p6 instead of m6.

Shaft rotates—outer ring stationary. Adapted from ABMA Std. 7, Tables 1, 2, 3 and 4. The above shaft (interference) fits and housing (clearance) fits are practical for most standard electric motor applications. Where wider tolerances (housing fits) are permissible, use tolerance class H7 instead of H6. Some applications such as hollow shaft motors, spindle motors and vibrator motors require a different tolerance class than shown in the table.

เพล (Shaft) ต้องสวมแน่น
เพื่อป้องกันลูกปืนหมุนฟรีบนเพล

Acceptable Shaft Fit (mm.)
00.00 - 00.02

เบ้าลูกปืน (Housing) ต้องมีระยะหลวม
กว่าเพลเล็กน้อย เพื่อป้องกันการกดบีบ
และรองรับการขยายตัวจากความร้อน

Acceptable Housing Fit (mm.)
00.00 - 00.03

Table 2-14. CYLINDRICAL ROLLER BEARING FIT TOLERANCES

Basic Number	Shaft Fits						Housing Fits (all H6)									
	Tolerance Class	Bearing Bore mm	Shaft Diameter (inches)		Shaft Diameter (mm)		Bearing OD mm	200 Series Housing Bore				Bearing OD mm	300 Series Housing Bore			
			Maximum	Minimum	Maximum	Minimum		(inches)		(mm)			(inches)		(mm)	
00	m5	10	0.3942	0.3939	10.012	10.006	30	1.1811	1.1816	30.000	30.016	35	1.3780	1.3786	35.000	35.016
01	m5	12	0.4730	0.4727	12.015	12.007	32	1.2598	1.2604	32.000	32.016	37	1.4567	1.4573	37.000	37.016
02	m5	15	0.5911	0.5908	15.015	15.007	35	1.3780	1.3786	35.000	35.016	42	1.6535	1.6541	42.000	42.016
03	m5	17	0.6699	0.6696	17.015	17.007	40	1.5748	1.5754	40.000	40.016	47	1.8504	1.8510	47.000	47.016
04	m5	20	0.7881	0.7877	20.017	20.008	47	1.8504	1.8510	47.000	47.016	52	2.0472	2.0479	52.000	52.019
05	m5	25	0.9850	0.9846	25.017	25.008	52	2.0472	2.0479	52.000	52.019	62	2.4409	2.4416	62.000	62.019
06	m5	30	1.1818	1.1814	30.017	30.008	62	2.4409	2.4416	62.000	62.019	72	2.8346	2.8353	72.000	72.019
07	m5	35	1.3787	1.3783	35.020	35.009	72	2.8346	2.8353	72.000	72.019	80	3.1496	3.1503	80.000	80.019
08	m5	40	1.5756	1.5752	40.020	40.009	80	3.1496	3.1503	80.000	80.019	90	3.5433	3.5442	90.000	90.022
09	m6	45	1.7726	1.7720	45.025	45.009	85	3.3465	3.3474	85.000	85.022	100	3.9370	3.9379	100.000	100.022
10	m6	50	1.9695	1.9689	50.025	50.009	90	3.5433	3.5442	90.000	90.022	110	4.3307	4.3316	110.000	110.022
11	m6	55	2.1666	2.1658	55.030	55.011	100	3.9370	3.9379	100.000	100.022	120	4.7244	4.7253	120.000	120.022
12	m6	60	2.3634	2.3626	60.030	60.011	110	4.3307	4.3316	110.000	110.022	130	5.1181	5.1191	130.000	130.025
13	m6	65	2.5603	2.5595	65.030	65.011	120	4.7244	4.7253	120.000	120.022	140	5.5118	5.5128	140.000	140.025
14	n6	70	2.7574	2.7567	70.039	70.020	125	4.9213	4.9223	125.000	125.025	150	5.9055	5.9065	150.000	150.025
15	n6	75	2.9543	2.9536	75.039	75.020	130	5.1181	5.1191	130.000	130.025	160	6.2992	6.3002	160.000	160.025
16	n6	80	3.1511	3.1504	80.039	80.020	140	5.5118	5.5128	140.000	140.025	170	6.6929	6.6939	170.000	170.025
17	n6	85	3.3483	3.3474	85.045	85.023	150	5.9055	5.9065	150.000	150.025	180	7.0866	7.0876	180.000	180.025
18	n6	90	3.5451	3.5442	90.045	90.023	160	6.2992	6.3002	160.000	160.025	190	7.4803	7.4814	190.000	190.029
19	n6	95	3.7420	3.7411	95.045	95.023	170	6.6929	6.6939	170.000	170.025	200	7.8740	7.8751	200.000	200.029
20	n6	100	3.9388	3.9379	100.045	100.023	180	7.0866	7.0876	180.000	180.025	215	8.4646	8.4657	215.000	215.029
21	n6	105	4.1357	4.1348	105.045	105.023	190	7.4803	7.4814	190.000	190.029	225	8.8583	8.8594	225.000	225.029
22	n6	110	4.3325	4.3316	110.045	110.023	200	7.8740	7.8751	200.000	200.029	240	9.4488	9.4499	240.000	240.029
24	n6	120	4.7262	4.7253	120.045	120.023	215	8.4646	8.4657	215.000	215.029	260	10.2362	10.2375	260.000	260.032
26	n6	130	5.1202	5.1192	130.052	130.027	230	9.0551	9.0562	230.000	230.029	280	11.0236	11.0249	280.000	280.032
28	n6	140	5.5139	5.5129	140.052	140.027	250	9.8425	9.8436	250.000	250.029	300	11.8110	11.8123	300.000	300.032
30	p6	150	5.9082	5.9072	150.068	150.043	270	10.6299	10.6312	270.000	270.032	320	12.5984	12.5998	320.000	320.036
32	p6	160	6.3019	6.3009	160.068	160.043	290	11.4173	11.4186	290.000	290.032	340	13.3858	13.3872	340.000	340.036
34	p6	170	6.6956	6.6946	170.068	170.043	310	12.2047	12.2060	310.000	310.032	360	14.1732	14.1746	360.000	360.036
36	p6	180	7.0893	7.0883	180.068	180.043	320	12.5984	12.5998	320.000	320.036	380	14.9606	14.9620	380.000	380.036
38	p6	190	7.4834	7.4823	190.079	190.050	340	13.3858	13.3872	340.000	340.036	400	15.7480	15.7494	400.000	400.036
40	p6	200	7.8771	7.8760	200.079	200.050	360	14.1732	14.1746	360.000	360.036	420	16.5354	16.5370	420.000	420.040

Shaft rotates—outer ring stationary. Adapted from ABMA Std. 7, Tables 1, 2, 3 and 4. The above shaft (interference) fits and housing (clearance) fits are practical for most standard electric motor applications. Where wider tolerances (housing fits) are permissible, use tolerance class H7 instead of H6. Some applications such as hollow shaft motors, spindle motors and vibrator motors require a different tolerance class than shown in the table.

ใบรับรองวัสดุเหล็กที่เปลี่ยนใหม่

วัสดุเหล็กเกรด 6582 (SNCM439)



Zertifiziert nach: DIN EN ISO 9001
ISO / TS 16949
DIN EN ISO 14001

DEUTSCHE EDELSTAHLWERKE
Providing special steel solutions



D-58452 Witten, D-57012 Siegen, http://www.dew-stahl.com

Datum/Date: 20.02.17

Seite/Page: 1 / 2

Zertifiziert nach:	AD2000 W 0	Werkstofflieferant gemäß Druckgeräterichtlinie 2014/68/EU
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Abnahmeprüfzeugnis nach DIN EN 10204 3.1/01.05
Inspection Certificate acc.to/Certificat de réception selon
Zeugnis-Nr./Certificate No./No.de Certificat 2196823/1673122/bit

Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG

Herstellerzeichen/Supplier's Mark/Marque d'usine	DEW
Prüfstempel/Inspector's stamp/Poinçon de l'expert	WA

Ihre Auftr.-Nr. vom Your order No. date /No.de votre commande du PO5911182 18.11.16	Kundenmaterial-Nr. Your material No. PO5911182
Unsere Auftr.-Nr. Our order No./No.de notre Commande 1691426 / 2	Unsere Material-Nr. Our material No./No.de notre matériel 2317869
Unsere Abteilung/Our department/Notre département VE-H	Telefon/Telephone/Téléphone 02302/294655

Produkt/Product/Produit

STAEBE AUS EDELBAUSTAHL
FIRMODUR 6582, 34 CRNIMO 6, 1.6582
GEWALZT, VERQUETET, GERICHTET
TOLERANZ DIN EN 10060
EN 10083,
RM = 965-1150 N/MM2 (~30-36HRC)
RP >= 760 N/MM2, A5 >= 14%, Z >= 35%

ENGINEERING STEEL BARS
FIRMODUR 6582, 34 CRNIMO 6, 1.6582
HOT ROLLED, QUENCHED+TEMPERED,
STRAIGHTENED
TOLERANCE DIN EN 10060
EN 10083,
RM = 965-1150 N/MM2 (~30-36HRC)
RP >= 760 N/MM2, A5 >= 14%, Z >= 35%

Fertigungsauftr.-Nr./Production lot-No./Lot de fabrication No. : 791678
Lieferschein-Nr./Delivery note/No. de l'avis de livraison :
Schmelzen-Nr./Heat No./No.de coulée : 618870
Stückzahl/Piece No./Nombre des pièces :
Gewicht/Weight/Masse :
Zeichnungs-Nr./Drawing No./No.du dessin :
Format/Shape/Profil : rund / round / rond
Durchm./Breite/ Diameter/width/ Diamètre/largeur : 85.000 [mm] +1.300/-1.300 [mm]
Dicke/Thickness/Épaisseur :
Länge/Length/Longueur : 7000 7200 [mm] + UL

Stückzahl und Gewicht siehe Rechnung. / Quantity and weight see delivery bill/invoice.
Nombre des pièces et masse voir facture.
Lieferzustand/Condition as supplied/Etat de livraison:
830 °C Wasser/Water + 610 °C 2 H Luft/Air

Die Prüfergebnisse zu Ihrer Lieferung finden Sie auf der Rückseite bzw. den nächsten Seiten.
As for test results of your delivery see overleaf. / Vous trouverez les résultats d'essais de votre livraison aux pages suivantes.

Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG
Abnahmetechnik/Inspection department/Département de Réception

Abnahmebeauftragter/Der Werksachverständige
Test House Manager/Works' inspector/Responsible Reception/L'Agent Réceptionnaire de l'usine

Zert. DIN EN ISO 9001
ISO / TS 16949
DIN EN ISO 14001

DEUTSCHE EDELSTAHLWERKE
Providing special steel solutions



D-58452 Witten, D-57012 Siegen, http://www.dew-stahl.com

Datum/Date: 20.02.17

Seite/Page: 2 / 2

Zeugnis-Nr. Certificate No./No.de Certificat 2196823/1673122/bit	Unsere Auftr.-Nr. Our order No./No.de notre Commande 1691426 / 2	Ihre Auftr.-Nr. vom Your order No. date /No.de votre commande du PO5911182	Fertigungsauftr.-Nr. Production lot-No./Lot de fabrication No. 791678
--	--	--	---

Schmelzen-Nr. Heat No./No.de coulée 618870	Erschmelzungsart Steelmaking process/Procédé d'élaboration E	Gießverfahren Casting process/Procédé de coulée VSG
--	--	---

Chemische Zusammensetzung/ Chemical Composition/ Composition chimique

Ist/Actual/Actuel	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Sn	Al	
	0.34	0.36	0.63	0.012	0.019	1.57	0.26	1.65	0.07	0.005	0.029	[%]

Zugversuch/ Tensile test/ Essai de traction

Probennr./Specimen dimension/Dimension d'éprouvette Zugprobe; 10 mm rd	Probenrichtung/Specimen direction/Sens de Prélèvement Längs/longitudinal/longueur	Prüftemp./Test temperature/Température d'essai 23 [°C]
Proben-Nr./Specimen-No./No.d'éprouvette 64877	Rp0.2 [MPa (N/mm²)] 805	Rm [MPa (N/mm²)] 995
	A5 [%] 18.0	Z [%] 65
	Härte/Hardness/Dureté 32.7 HRC	

Schlagbiegeversuch/ Impact test/ Essai de résilience

Probenform/Type of specimen/Type d'éprouvette [CHARPY V]	Probenrichtung/Specimen direction/Sens de Prélèvement Längs/longitudinal/longueur	Prüftemp./Test temperature/Température d'essai 23 [°C]
Proben-Nr./Specimen-No./No.d'éprouvette 64877	1. Prfl./Spec./Eprouvette 87 [J]	2. Prfl./Spec./Eprouvette 86 [J]
	3. Prfl./Spec./Eprouvette 88 [J]	
Soll/Required/Demandé	>=45 [J]	

Korngröße/ Grain size/ Grosseur de grain

Referenzzustand/Reference condition/Etat de référence
Größe/Size/Grosseur
5 und feiner/and smaller/et plus fin

US-Prüfung/ Ultrasonic testing/ Contrôle par ultrasons

Die Lieferung wurde 100% US-geprüft nach/Delivery US-checked 100% acc.to: EN 10308 Typ 1a Tab.2 K1.3
--

Die Lieferung wurde auf Identität geprüft (Optische Emissionsspektrometrie) / Identity has been checked (Optical Emission Spectrometry)
Rißkontrolle wurde durchgeführt. / Testing for surface cracks has been performed.

Die Lieferung wurde besichtigt und auf Maß kontrolliert / Visual inspection and control of dimensional accuracy have been performed

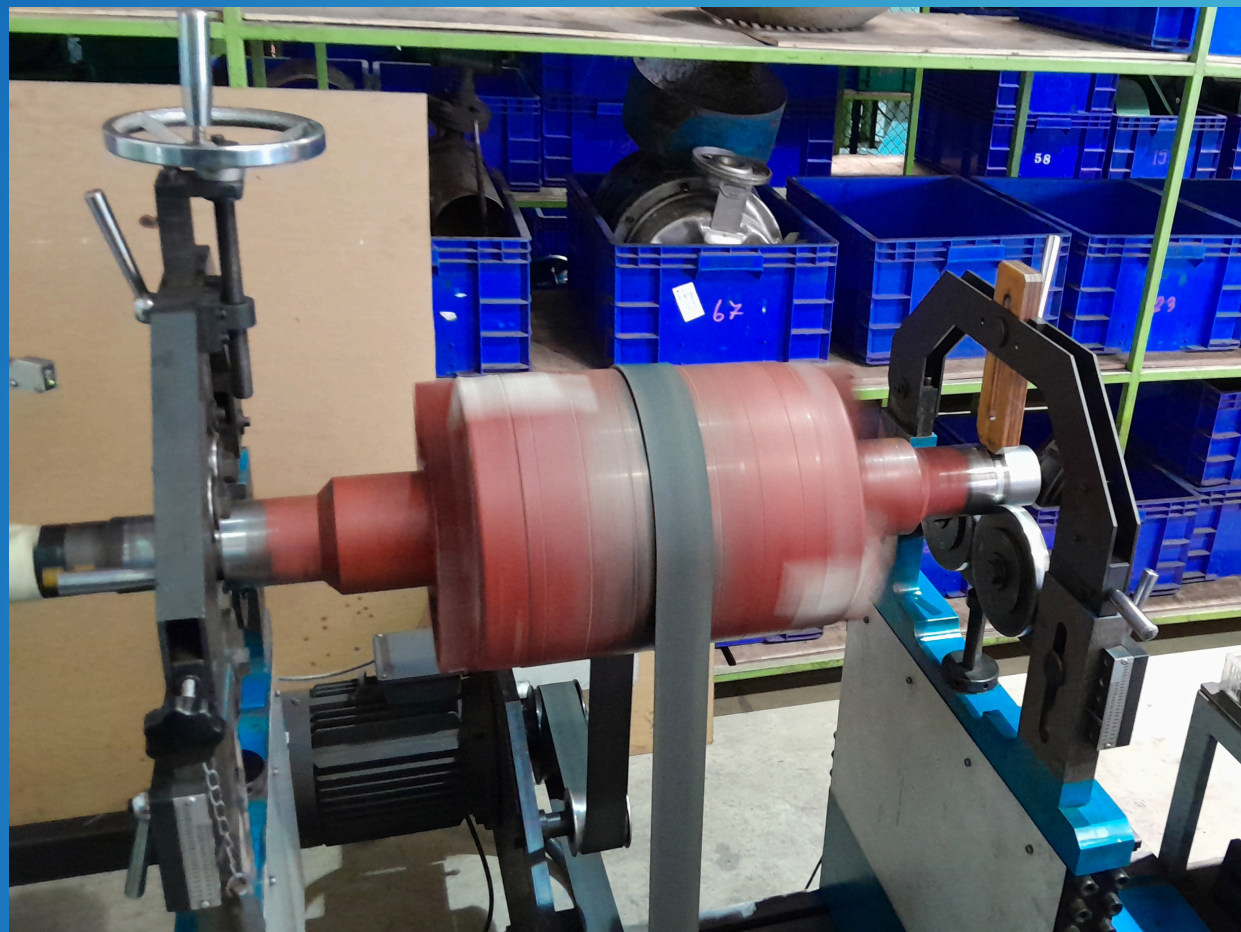
Das Material ist frei von Radioaktivität (<0,1Bq/g bezogen auf Co-60). / The Product is free from radioactivity (<0,1Bq/g concerning Co-60).
Le matériau n'est pas radioactif (<0,1Bq/g, référence Co-60).
El material es libre de radioactividad.

Location of production: Witten / Germany

Erläuterung/ Explanations/ Explications

E = Erschmelzungsart / Steelmaking process / Procédé d'élaboration
E = Elektrostahl / Electric-arc-furnace steel / Acier électrique
E = Gießverfahren / Casting process / Procédé de coulée
VSG = Vorblau-Stranggüß / Continuous casting bloom / Bloom de coulée continue

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellungsannahme entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order.
Nous certifions que la livraison été vérifiée et est conforme aux stipulations de l'acceptation de la commande.



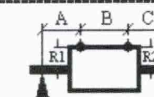
Report Of Dynamic Balancing Product

No. 00000388

Type nj2505-1`-028
 Mass(kg) 60
 Rotor 1900

Parameter Of Balancing Plane

A = 200.0 mm B = 360.0 mm C = 195.0 mm
 R1= 140.0 mm R2= 140.0 mm



Qualificatory Criterion

The rotor balance grade is G1.6

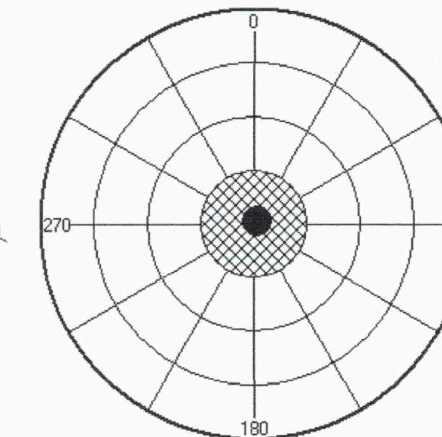
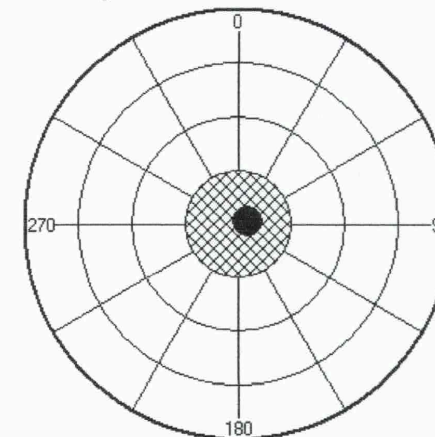
Permissible Unbalance Amount Of Left Plane = 1.7230 g

Permissible Unbalance Amount Of Right Plane= 1.7230 g

Static Permissible Unbalance Amount = 3.4460 g

Testing Data

	Rev r/min1	LeftMass (g)	LeftPhase (deg)	RightMass (g)	RightPhas (deg)	StaticMass (g)	StaticPhase (deg)
Before balancing	502	3.3025	85.	1.9151	219	2.4155	120
After balancing	494	0.3263	71.	0.1549	50.	0.4743	65.

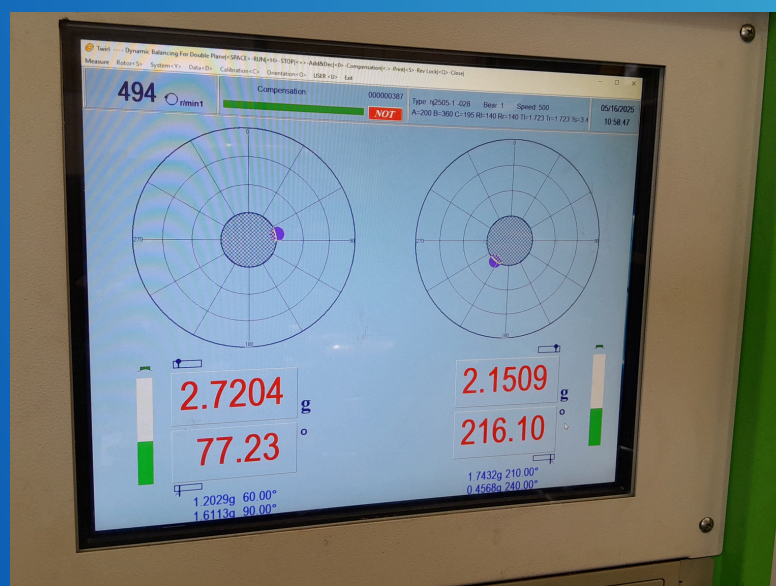


Result

Qualified

05/16/2025 11:00:07

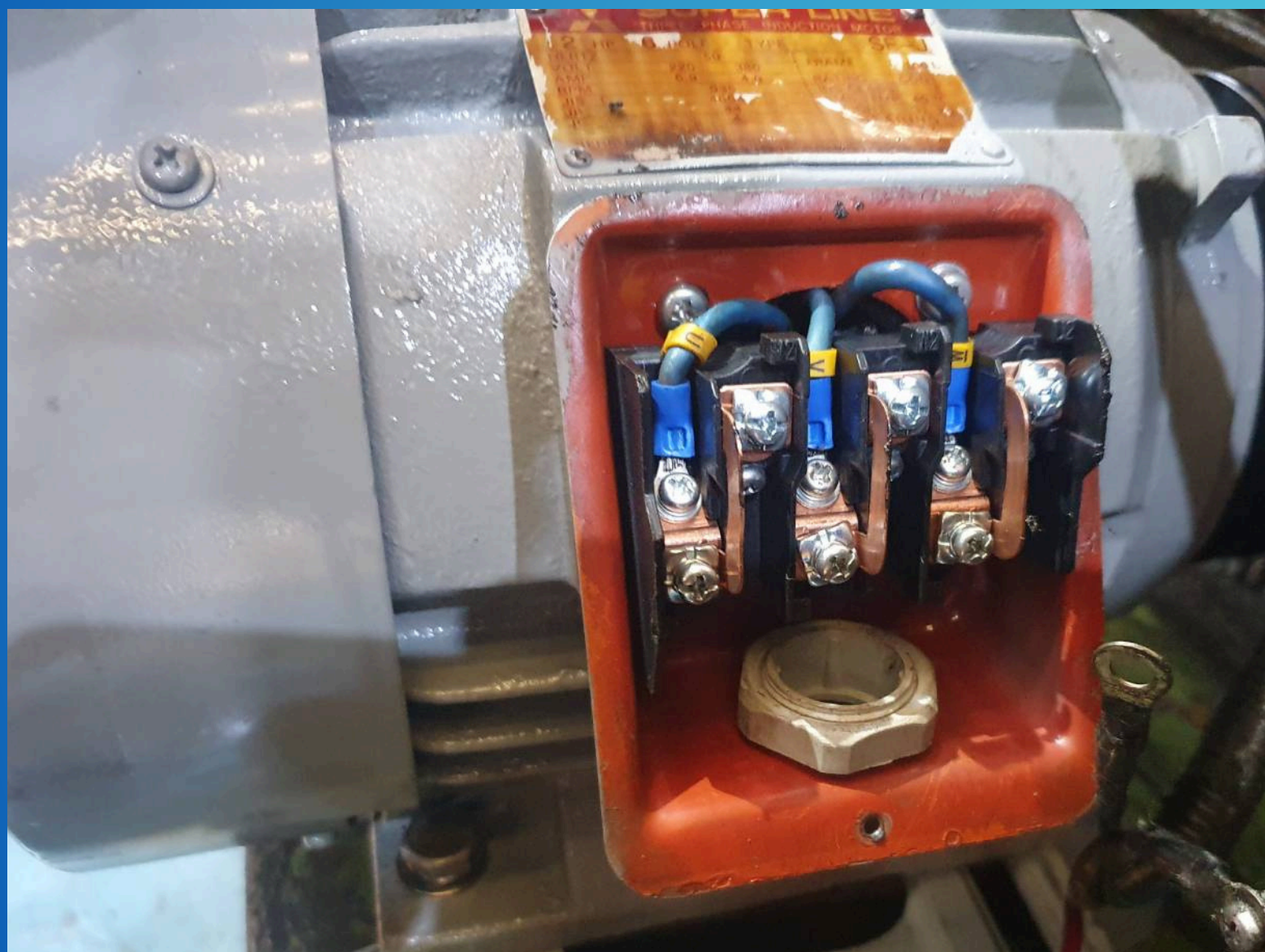
N.J MOTOR AND SERVICES CO.,LTD.



8

มาตรฐานงานซ่อม

การทดสอบมอเตอร์ Final Test



Estimation For No-Load Current of AC Squirrel Cage Motor

Rating		2 Pole	4 Pole	6 Pole	8 Pole
HP	KW	3000 RPM	1500 RPM	1000 RPM	750 RPM
0.5	0.37	65 - 80 %	65 - 80 %	65 - 80 %	60 - 75 %
0.8	0.55	50 - 65 %	55 - 70 %	60 - 75 %	50 - 65 %
1	0.75	40 - 55 %	55 - 70 %	60 - 75 %	50 - 65 %
1.5	1.1	40 - 55 %	55 - 70 %	60 - 75 %	50 - 65 %
2	1.5	35 - 50 %	50 - 65 %	55 - 70 %	50 - 65 %
3	2.2	35 - 50 %	50 - 65 %	55 - 70 %	45 - 60 %
4	3	30 - 45 %	40 - 55 %	55 - 70 %	40 - 55 %
5	3.7	25 - 40 %	40 - 55 %	55 - 70 %	40 - 55 %
7.5	5.5	25 - 40 %	40 - 55 %	55 - 70 %	40 - 55 %
10	7.5	25 - 40 %	35 - 50 %	45 - 60 %	45 - 60 %
15	11	25 - 40 %	35 - 50 %	40 - 55 %	35 - 50 %
20	15	25 - 40 %	35 - 50 %	40 - 55 %	35 - 50 %
25	18.5	20 - 35 %	30 - 45 %	40 - 55 %	40 - 60 %
30	22	20 - 35 %	30 - 45 %	40 - 55 %	40 - 55 %
40	30	20 - 35 %	25 - 45 %	35 - 50 %	40 - 55 %
50	37	20 - 35 %	25 - 45 %	35 - 50 %	40 - 55 %
60	45	20 - 35 %	25 - 45 %	35 - 50 %	40 - 55 %
75	55	20 - 35 %	25 - 45 %	35 - 50 %	40 - 55 %
100	75	20 - 35 %	25 - 45 %	35 - 50 %	40 - 55 %
125	90	20 - 35 %	20 - 40 %	25 - 40 %	30 - 45 %
150	110	15 - 35 %	20 - 40 %	25 - 40 %	30 - 45 %
175	132	15 - 35 %	20 - 40 %	25 - 40 %	30 - 45 %
220	160	15 - 35 %	20 - 40 %	25 - 40 %	30 - 45 %
270	200	15 - 35 %	20 - 40 %	20 - 40 %	25 - 45 %
350	250	15 - 35 %	15 - 40 %	20 - 40 %	25 - 45 %
400	300	15 - 35 %	15 - 40 %	20 - 40 %	25 - 45 %
430	315	15 - 35 %	15 - 40 %	20 - 40 %	25 - 45 %

กระแสที่ได้ x 100 / กระแสเนมเพลส = %

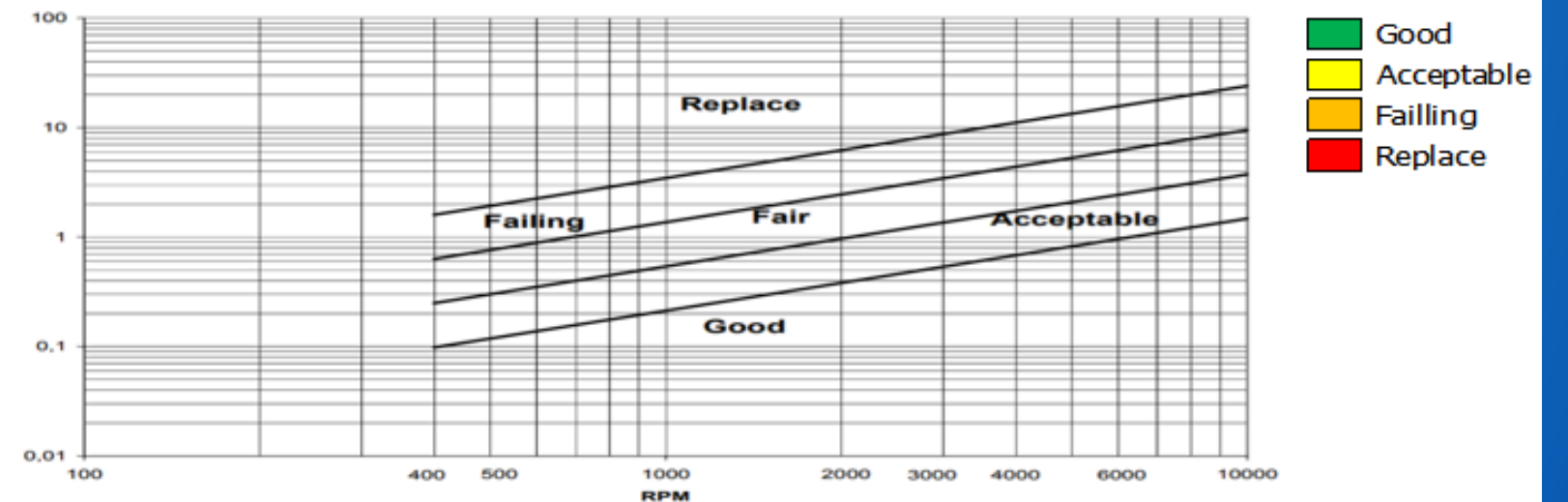


STANDARD VIBRATION TEST ISO 10816-3

								Velocity 10-1000 Hz R > 600 rpm	
								11	0.44
								7.1	0.28
								4.5	0.18
								3.5	0.11
								2.8	0.07
								2.3	0.04
								1.4	0.03
								0.71	0.02
								mm/s rms	inch/s rms
rigid	flexible	rigid	flexible	rigid	flexible	rigid	flexible	Foundation	
Pupms > 15 kW				medium machinea		large machinea		Machine type	
radial,axial,mixed flow				15 kW < P < 300 kW		300 kW < P < 500 MW			
integrated drive		external drive		motors 160 mm < H < 315 mm		motors 315 mm < H		Group	
Group 4		Group 3		Group 2		Group 1			

- A New machinc condition
- B Unlimited long-term operation allowable
- C Short-term operation Allowable
- D Vibartion causes damage

Bearing condition value with unit "g" RMS



FIELD BALANCE

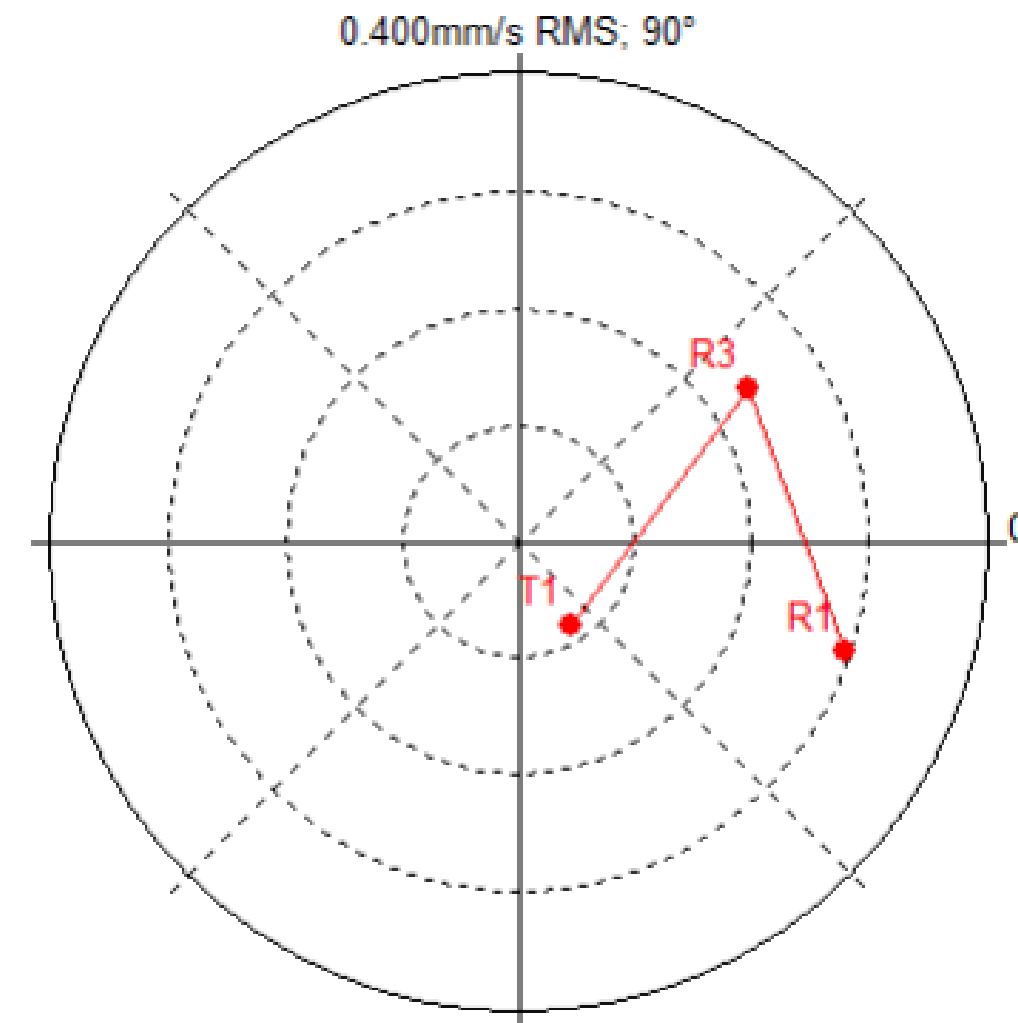


Balancing Report

Name:	SUN1
Date, time:	03.01.2025 10:15:19
Planes:	1
Speed:	944 RPM, 15.7 Hz
Remove trial mass:	yes
DF (measured):	105, -166.0°
Initial measurement:	0.292 mm/s RMS, -18.7°
Trial mass:	4.00 g
Trial run:	0.235 mm/s RMS, -123.7°
Unbalance / Bal.Quality:	265 gmm / 16.0
Correction mass:	-32.7°: 2.78 g
Test run / Effect:	0.236 mm/s RMS, +34.2° / 19.4%
Unbalance / Bal.Quality:	213 gmm / 16.0
Trim mass 1:	-20.1°: 2.24 g
Trim run 1 / Effect:	0.0839 mm/s RMS, -58.1° / 71.3%
Unbalance / Bal.Quality:	76.0 gmm / 6.30
Trim mass 2:	-72.2°: 0.800 g
Trim run 2 / Effect:	Not used
Unbalance / Bal.Quality:	
Trim mass 3:	
Trim run 3 / Effect:	Not used
Unbalance / Bal.Quality:	
Trim mass 4:	
Trim run 4 / Effect:	Not used
Unbalance / Bal.Quality:	

Notes:

Balancing Vectors



LASER SHAFT ALIGNMENT

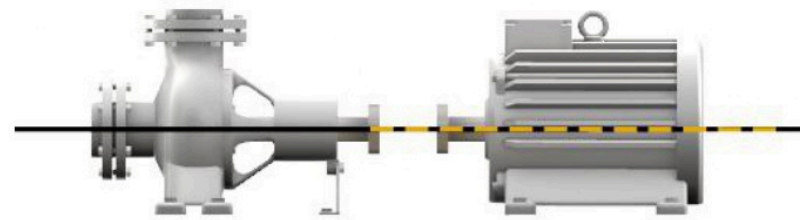
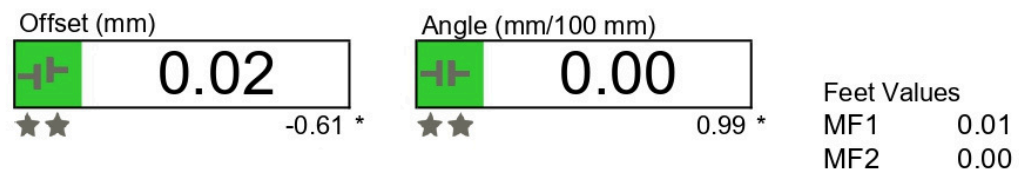


EASY-LASER®

Date: 21/10/2025
 Customer: บริษัท พรอสไฟรา จำกัด
 Operator:
 Measurement: Horizontal
 File name: 2510-2-003
 Detector serial: 163385, 163407

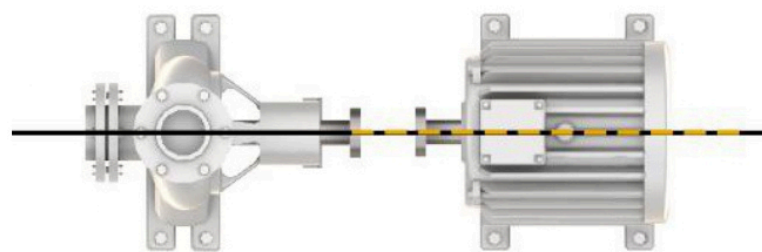
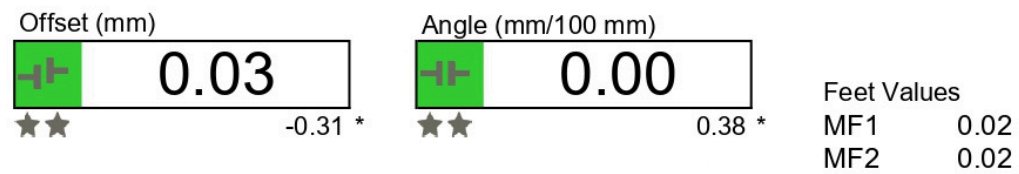
HORIZONTAL REPORT

VERTICAL



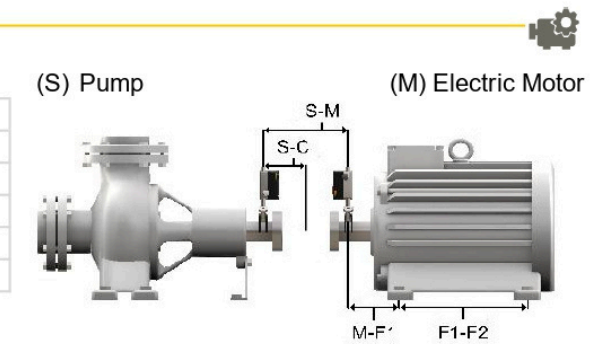
*as found results

HORIZONTAL



MACHINE SETUP

COUPLING	SHORT FLEX
COUPLING Ø	--
S-C	68
S-M	135
M-F1	120
MF1-F2	250



TOLERANCE (EASY-LASER)

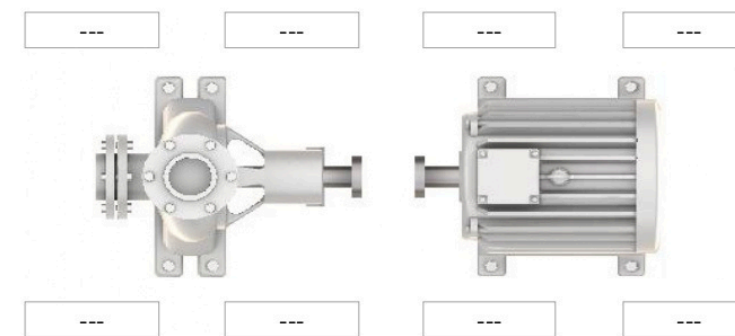
RPM 1500

	Offset (mm)	Angle (mm/100 mm)
Acceptable (*)	0.07	0.07
Excellent (**)	0.05	0.05

THERMAL COMPENSATION

VERTICAL OFFSET	---
HORIZONTAL OFFSET	---
VERTICAL ANGLE	---
HORIZONTAL ANGLE	---

SOFTFOOT



NOTES

ระยะเวลาการรับประกัน

**ปรับปรุงสภาพขดลวด
(Overhaul)
รับประกัน 6 เดือน**

**พันขดลวดใหม่
(Rewinding)
รับประกัน 12 เดือน**

THAIU.C
Tel. 080-777-8853

SAFETY FIRST



ปลอดภัยไว้ก่อน

5 TON

UCHOIST



THANK YOU

ขอบคุณ