

Franklin Application/Installation Data *Europe*

No. 01/2018

THE IMPORTANCE OF GOOD DATA

When you purchase a product, you expect it to work - that's what you purchased it for.



In real life, products sometimes fail to perform as expected, and this is when things become interesting. Manufacturers, dealers, installers, customers – they are all part of the communication chain when a product fails to perform.

The number one priority for the user is restoring the functionality of the broken product. The faster and easier this process works, the more likely it is the customer will be satisfied with the performance of his supply chain.

Franklin Electric has long been known for being exactly this: a company you can trust - before AND after the sale. This AID bulletin is a plead for our cause – the cause of providing good service.

Product Failure Tracing

Aside from merely determining whether a claim for free product replacement (usually called "warranty replacement") is founded, the more important task is often to understand the reasons the product failed.

Why? Because today, most quality manufacturers have sourcing and manufacturing processes in place that guarantee a flawless and constant quality of their product.

Consequently, experience accumulated in our service department shows that in most cases, the root cause of failure lies in the application itself.

Not chasing down and eliminating this cause will lead to premature failure of the replacement product, leaving behind an even more unsatisfied customer.

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Help Franklin Electric Field Service to help you!

To make this work, Franklin Electric maintains a network of Field Service Engineers and Franklin Electric Service Partners that are there in case of trouble. Lines are open on "all channels" - including e-mail, telephone, world wide web to name the most common. After the first contact is made, it is important we are provided with data on:

- Product identification and motor details (date code, sequence no., etc.) and year of purchase
- Installation details and failure mode

Because the questions are always the same, we have designed standard forms for your convenience. These shall be primarily used to convey all needed information:



(Please see documents enclosed in this AID)

Sometimes, this data contained in these forms will already allow us to determine what went wrong and how it can be corrected. Our specialists will get back to the business partner with a failure report containing the probable root cause of failure, the commercial decision on product replacement and our recommendations for system improvement.

In other cases, we will have to get the product back for a deeper inspection or even have a Field Service Engineer visit the application site.

Be sure to observe your next training opportunities:





From experience, information received upfront is often incomplete, misleading or incorrect. This leads to callbacks, additional workload and unnecessary delays in resolving a claim.

Not surprisingly, the same applies to pre-sales service. When quoting equipment for an installation, the engineer must be provided with sufficient system details to properly fulfil his job. A lot of expensive commissioning and – afterwards – service calls can be avoided if the equipment ties in well and interfaces work.

Thank you for your business and we are looking forward to assisting you with whatever issues you may encounter using Franklin Electric products!



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DATE

SUBMERSIBLE APPLICATION INSTALLATION RECORD

Please use this form to provide our technical service with important data about the installation.

1. INSTALLATION I	DATA	ADDRESS		CITY			
CONTACT NAME		PHONE NO.		E-Mail			
INSTALLATION		FAILURE		WORKED			
DATE OPERATION CYCLE	MONTHS/DAYS/ HOURS	DATE STARTS PER DAY/HOUR		PERIOD STARTS TIME DELAY			
2. PUMP DATA MANUFACTURER		ТҮРЕ		MAX. POWER REQUIRED P2	kW		
PUMP PERFORMANCE	REQUIRED	FLOWm ³ /h	HEAD	m NPSH required	m		
	AT DELIVERY WORKING CONDITION	FLOWm ³ /h	HEAD	m NPSH available	m		
3. MOTOR MODEL	DATE CODE	S/N	POWER	kWV	Hz		
DROP CABLE	POWER SUPPLY TO CONTROL BOX	LENGTHm	CROSS SECTION	mm ²			
MOTOR START	CONTROL BOX TO MOTOR	LENGTHm	CROSS SECTION	mm ²			
	CABLE EXTENSION \Box Yes \Box \Box DOL \Box Y/ Δ	No SPLICING L TECHNOLOGY	TRANSFER TIME	sec			
	□ SOFT START DEVICE START	VOLTAGE %	RAMP TIME up	sec down	sec		
FREQUENCY CONVERTER (VFD	MANUFACTURER		ТҮРЕ		-		
	FREQUENCY MIN Hz	/MAX Hz	RAMP TIME up	sec down	sec		
	OUTPUT FILTERS □ Yes □	No SINUS FILTER	INDUCTOR	dV/dt-FILTER			
INSULATION RESIS	STANCE VALUE BEFORE INSTALL	ATIONMΩ	AFTER INSTALLATION	ΜΩ			
MOTOR POWERED BY	POWER NETWORK	NO LOAI INCOMING VOLTAGE	D L1-L2	L2-L3L3-L1	V		
	GENERATOR Kva	FULL LO.	AD L1-L2	L2-L3L3-L1	V		
INPUT CURRENT AT WORKING CONDITION L1 L2 L3 A CURRENT IMBALANCE %							
4. CONTROL AND MOTOR PROTECTION(S) CONTROL BOX MANUFACTURER							
EQUIPPED WITH U FUSES (POWER LINE SIDE) RATINGA TYPE Standard Delayed CIRCUIT BREAKER rating/settingA							
TEMP. CONTROL ARRESTOR Y_{es} N_o \square PTC \square PT100 TRIP TEMPERATURE \circ_C							
PHASE FAILURE DETECTOR Y_{es} N_o MOTOR SURGE PROTECTION Y_{es} N_o							
OVERLOAD PRO	TECTION BRAND	MODEL	RATING	A ADJUSTABLE SET	A		
SUBTROL +/SUBMONITOR S/NOVERLOAD D No YesA UNDERLOAD VesA							
CONTROLS GROUN	NDED TO 🛛 WELL HEAD	□ MOTOR □	BUILDING	POWER SUPPLY			
5. WELL AND INST.	ALLATION DATA						
	PUMPSET INSTALLED VERTIC	CAL HORIZONTAL					
,3	WELL WATER Normal	□ Aggressive □ Sandy	□ Muddy	TEMPERATURE	_°C		
4	1 WELL DIAMETER	mm MOTOR COOLING	cm/sec	(Min. requested	cm/sec)		
	2 DELIVERY PIPE Ø	mm Additional check valve	🗆 No 🗌 Yes	Amount every	m		
	WATER LEVEL: 3 STA	ATICm 4	DYNAMIC	m			
5	5 PUMPSET INSTALLED	m COOLING SLEEVE	□ No □ Yes	Diameterm	n		
6	A 1 6 WELLS CASING DEPTH	m WELL SCREEN -	PERFORATED CASING	From/To / m			
	7 WELL DEPTH	m					



FEE – NO: VISIT DATE:

Motor Test Report Additional comments under "Remarks"

1. CUSTOMER / USER Company:		Country: Tel.:	Town:
2. MOTOR Type: Date Code: Built in: Worked for: Months	Modell: Sequenz-Nr: Equipped for: Days H	KW: Stator Nr: Worked with ours Date Inst.:	Volts: Hz: Assembler: Material Date Failed:
3. INSTALLATION Vertical Well depth /[m]: Cable length /[m]: Water:	Horizontal Well diameter /[cm]: Cable square /[mm ²]: Temperature:	Pump Make: Pump at /[m]: Protection Make: PH-Value:	Type: Water inlet at /[m]: Type: Setting /[A]:
4. EXTERNAL Shaft Height: Stator Shell: Splines: Nameplate:	Upper End Bell: Lower End Bell: Diaphragm Pos.: Leakage:	Shaft Rotation: Deposits: Cable / Lead Insu.: Snap Ring:	Slinger: Valve: Connector
5. ELECTRICAL MEASUREM Phase 1: Ω Phase2: Ω Phase3: Ω	ENTS Normal Value: Normal Value: Normal Value:	$Ω$ Main Ω Ω Start F Ω Insula	Phase: Ω Phase: Ω tion Resistance: ΜΩ
6. TEARDOWN Thrust Bearing: Segments: Filling Liquid: Water Entry: Up-thrust Washer	Lower Radial Upper Radial Sleeve Upper <u>cm</u> ³ Sleeve Lower	Bearing: Bearing: Shaft End Shaft End	Diaphragm: Liner: Shaft Seal: Windings: Prong:
7. CONTROL BOX Relay: Subtrol:	Туре:	Capacitor: <u></u> CP-Water: <u></u>	Wiring:
8. REMARKS			
Tech. Warranty: Con Signature:	m. Warranty: <u></u> 🗌 Ro Date:	epair 🗌 Scrap Defect: Entered into EDP:	Cause: Date: