

This document contains information regarding packing, general characteristics, construction of the product, materials.
Data may change without advising maintaining the fundamental functional and safety characteristics complying with the specifications.

0 General

Askoll code	29600201
Type	M231 XP
Manufacturer & Place of manufacture	Askoll Tre spa Via Industria, 11 360031 Dueville (VI) Italy
Product category	Drain pumps for dishwashers and washing machines
Guarantee	24 months from the date of production
Other informations or description of the product if necessary	Cu drain pump

1 Material list

Part	Material	Supplier	Color	(1)
Coil Base	Grilon TS V0	EMS	NC	
Winding	Copper	Various		
Motor Protector				
Motor Prot. Laminated enclosure				
Solder lead free	Electrical welding	Various		
Terminal	Tinned Brass	Various	NC	
Rotor Enclosure	PP GF30 DAPLEN FS65G30C3	Borealis	GY	x
	PP GF30 Isoglas H 30 FVL C	Sirmax	GY	
Intercooler disc	PP T40	Various		x
Rotor (plastic part)	Pom GF10	Various		x
Magnet	Ferite	Various	NC	x
Shaft	Aisi 420 temperd	Various	NC	x
Impeller joint	Brass	Various	NC	x
Impeller joint OR	Nbr	Various	BK	x
Impeller rubber insert	Nbr	Various	BK	x
Impeller lock	Pom	Various		x
Impeller	Pom	Various		x
Bearing OR	Nbr	Various	BK	x
Lip seal	Nbr	Various	BK	x
Bearing support	Pom	Various		x
Lip seal support	Pom	Various		x
Bearing	Pom CF10	Various		x
Stator	Laminated steel	Various		
Motor cover / stator enclosure	PP GF30 DAPLEN FS65G30C3	Borealis	GY	
Oring motor	NBR	Various	BK	x
Filter body or volute	Not present	Various		x
Filter knob	Not present	Various		
Filter element	Not present	Various		x
Filter gasket	Not present	Various		x

(1): In contact with water

We declare that the product stated here is produced with materials not containing the dangerous substances listed in the Directives 2011/65/EC

Date: 13/10/2016

Automatic Askoll signature

Iader Rinaldi
Drain pumps
Tech. Manager

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Appendix No.:

Marks licence No.:

file ref.:

(filled in by the institute)

Constructional data for electric motor-operated appliances / electric heating appliances / electric motor-operated tools**Form 142E**

- 1.1 Manufacturer: Askoll Tre SpA
1.2 Place of manufacture: Via Industria, 11 - 36031 POVOLARO VI Italy
1.3 Product category: Draining pump for dishwashers and washing machines
1.4 Type **: **M231 XP**
2.1 Nominal voltage: 220-240 V 50 Hz
2.2 Nominal input: 40 W 0,2 A
2.3 Protection against electric shock *): n.a.
2.4 Degree of protection *): Covered
2.5 Supply connection *): appliance coupler
2.5.1 Kind of connection *): n.a.
2.6 Materials; 2.6.1 Enclosure: see Askoll Product Data Sheet
2.6.2 Water container:
2.7 Refrigerating equipment: permissible operating overpressure, pressure side bar 2.8 Type of refrigerant R.....
2.9 File reference - Compressor: 2.10 Quantity of coolant: Kg
3.1 Further technical information (short-time, intermittent duty, operating time, nominal contents, operating overpressure):

4 Data about the motor:4.3 Type reference: **M231 XP**

4.1 Manufacturer: Askoll TRE SpA

4.4 Kind of motor: Synchronous

4.2 Number of revolutions: .

4.5 Nominal voltage: 220-240 V 50 Hz

	Resistance [Ω]	Wire thickness	Number of turns	Insulation class (Insul. mat.)
4.6 Winding 1: 2: 3:	263 $\pm$ 8%	0,160	2x2030	155

4.7 Information on ambient temperatures (if higher than 25°C):

4.8 Temperature class:

5 Components installed in the appliance (switch, temperature regulator, heater, cables, capacitor, sockets etc.)

Type	Manufacturer	Information on type, current, input or similar	tested acc. to?	any certification mark

*) cross out if not applicable

**) Please give information on separate sheet about typ series and the relevant components, if applicable

Continue with form 198 or separate sheet, if necessary

Offenbach,

Place: Povolaro

Date:

23/01/2013

VDE Testing and Certification Institute
Department

Askoll
re
Dennis Urbani
Product Certification
(Stamp and signature of the Manufacturer)

VDE Prüf- und Zertifizierungsinstitut
VDE Prüfstelle
Merianstraße 28

D-63069 Offenbach

Aktenzeichen / file ref.

ISOLATIONSERKLÄRUNG

DECLARATION OF INSULATION

Betriebsmittel (Bauteil): Draining pump for dishwashers and washing machines
Equipment (Component)

Typenbezeichnung: M231 XP
Type designation

Hersteller: Askoll Tre SpA - Via Industria, 11 - 36031 POVOLARO VI Italy
Manufacturer

Hiermit wird bestätigt, daß die im o.g. elektrischen Betriebsmittel (Bauteil) verwendeten un wie auf der Rückseite beschriebenen Isolierstoffe der jeweils dazu angegebenen IEC-Norm und dem daraus entnommenen IEC-Typ entsprechen.

It is herewith confirmed that the overleaf specified insulation materials used in the a.m. electrical equipment (component) comply with the indicated IEC-Publication and to the therefore quoted IEC-Type.

Das o.g. elektrische Betriebsmittel (Bauteil) entspricht der Thermischen Klasse 155 gemäß IEC-Publikation 85

The a.m. electrical equipment (component) complies with the Thermal class 155 according to IEC Publication 85.

Offenbach,

Place: Povolaro

Date: 23/01/2013

VDE Testing and Certification Institute
Department

Askoll
Tre
Dennis Urbani
Product Certification

(Stamp and signature of the Manufacturer)

3. Motor
Type ref. / model **M231 XP**
3.1. General

Kind of motor	Synchronous
Electrical rating	220-240Vac 50Hz 0,2A 40W
Number of revolutions	3000
Compliance	EN IEC 60335-1:2001
Certifications	
Protection against el. shock	n.a.
Degree of protection	Covered
Supply connection	appliance coupler
Kind of connection	n.a.
Temperature Class	155
Other	

marking example

Askoll MADE IN ITALY Mod.M231 XP Art.xxxxxx (Askoll part no.) Cod.xxxxxx (Customer part no.) 220-240Vac 50Hz 0,2A 40W Cl.155
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3.3. Bobbin

Number of turns	2x2030
Wire diameter mm	0,160
Resistance [Ω]	263 ± 8%
Protection	PROTECTION LEFT TO END PRODUCT

4. Insulation materials
4.1. Plastic parts and minor insulation

Part	Type	color	Manufacturer	UL 94	CTI	BP	GWFI	GWIT	GW (1)	File no./Ref.
01A	Coil Base									
	PA66/6 Grilon TS V0	NC	EMS Chemie	V0	600	>185	960		/	QMFZ2/8.E53898
03	Rotor Enclosure									
	PP GF30 Isoglas H 30 FVL C grigio	GY	Sirmax						/	QMFZ2/8.E220931
	PP GF30 Daplen FS65G30C3	GY	BOREALIS AG		600	>145			/	QMFZ2.E108112
06	Carter, stator enclosure									
	PP GF30 Daplen FS65G30C3	GY	BOREALIS AG	HB	600	>145	825	850	/	QMFZ2.E108112

(1) Endurance of the flame during GWEP test on the connections at 650 / 750°C (re.: IEC 60695-2-11)

4.2. Winding

Part	Type	Manufacturer	BC	OC	ANSI Cl.	Temp.Cl.	File no./Ref.
01	Wire Cu		PUR	-	MW-79	155	
01			PUR	-	MW-79	155	

5. Components

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