

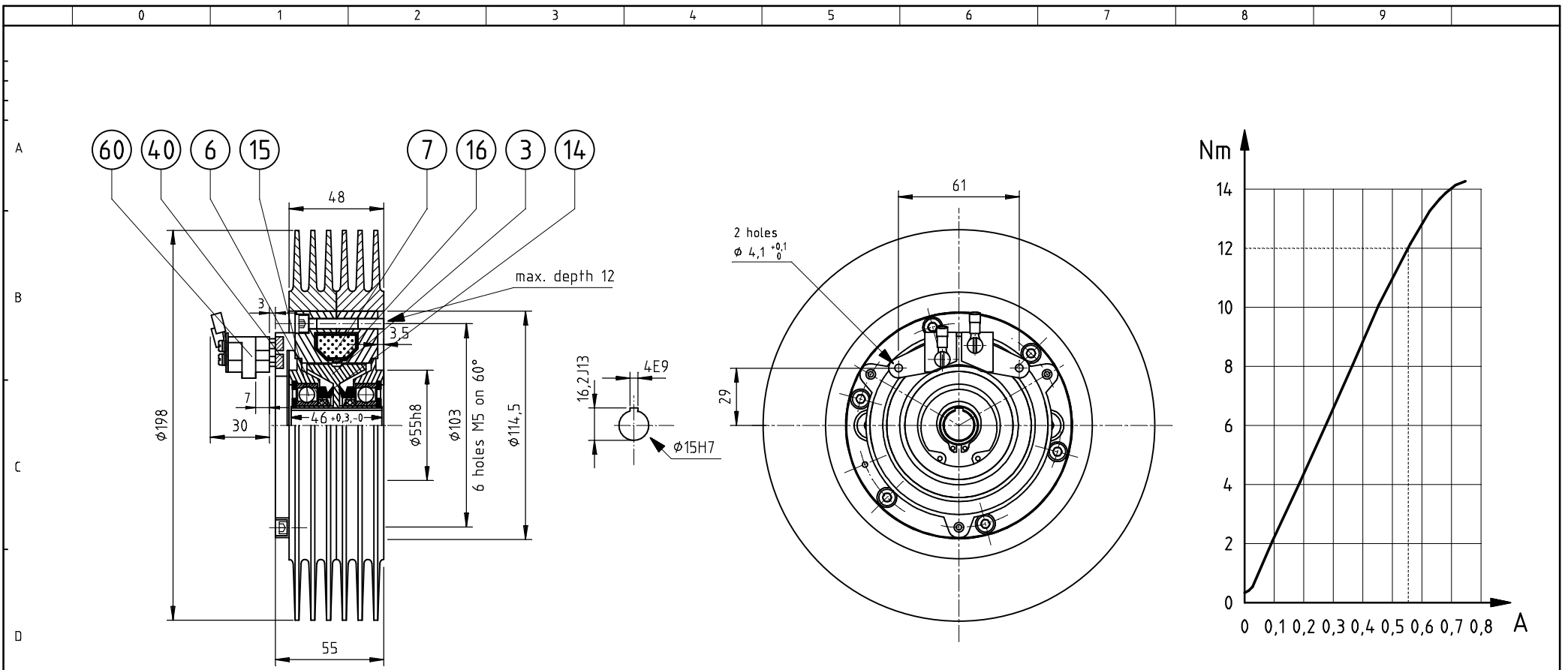
Please read carefully before starting operation !

- Should any damage occur due to disregard of the following instructions the guarantee expires and the manufacturer is free from any obligations. The device can only be employed under operations parameters not exceeding the nominal capacity of the clutch or brake. Maximum torque and highest permissible power loss must be strictly observed. The available voltage must correspond to the operation voltage indicated on the identification plate. When a clutch of the E(R)AT ... -Type is used, the distance between the brush holders and the slide ring must correspond to the measure indicated on the table of dimensions.
If a brake is used, there is no slide ring and the connection is effectuated directly on the coil. Thereupon it must be checked that no body contact takes place.
If a clutch or a brake is operated in an extremely dustladen place (soot, wood chip, paper or cement dust) a dust cover should be provided. In such a case an additional fan should allow reliable dissipation of the heat developed.

Storage : Clutches and brakes must be stored in a dry place and protected against corrosion. The device can only be stored in its welded plastic hull containing moisture absorbing chips.

- Installation :
Installation of the device must be carried out with care in order to prevent damaging of bearing and packing. Any use of force impairs the function. The borehole present should be lightly smeared with a rust proofing grease. The system being lubricated for life, any other lubrication with oil or grease is not admitted as it would impair the performance of the device.
- Starting operation :
Clutches and brakes should be taken into operation by means of short current pulses to allow proper distribution of the magnetic particles. Thereupon the rotor speed correspond to the use required.
- Dismounting, Repairs :
Instructions for repair are supplied on request free of obligation. Upon disassembly of clutches and brakes any shock by knocks and shoves must be prevented. When removing the rotor a brace can be used.

c			Datum	29.12.1993	Zeichnungsnummer/ drawing number				operating instructions	Komm.Nr		Vertragsnummer
b			Bearb.	KIPP	1.1232E					General-Information		
a			Gepr.									
	Änderung	Datum	Name	Norm	Einbauort:	Ersatz fuer:	Ursprung:	24.08.2011	1 Bl.			



Only applicable for horizontal shaft position !

In order to avoid magnetic leakage flux and to achieve a good heat removal, non-ferrous metals should be used for installation or attachment of auxiliary components (not for drive shaft).

dimensions and specifications subject to change

rated torque	residual torque	field values			resistance at 20°C	operating times		axial force is inadmissible			admissible max. radial force: N		
		maximum values	rated current						max. admissible power loss		mass moment of inertia		weight
M_{max} [Nm]	M_{res} [Nm]	P [W]	U [V]	I_N [A]	R [Ω]	t_{on} [ms]	t_{off} [ms]	P_v [W]	P_v [W]	P_v [W]	J [kgm ²]	J [kgm ²]	
12	0,27	24	24	0,55	23	240	150	70	190	310	$5,2 \cdot 10^{-3}$	$0,25 \cdot 10^{-3}$	2,8
								150*	600*	1050 *	$14,0 \cdot 10^{-3}$ *		4,6*

*) heat sink "R"

item	amount	parts
3	1	internal rotor
6	2	felt gasket
7	1	field coil 24VDC
14	2	V ring gasket
15	2	ball bearing
16	-	air gap for magnetic powder slipping
40	1	slipping
60	1	brush holder assy.