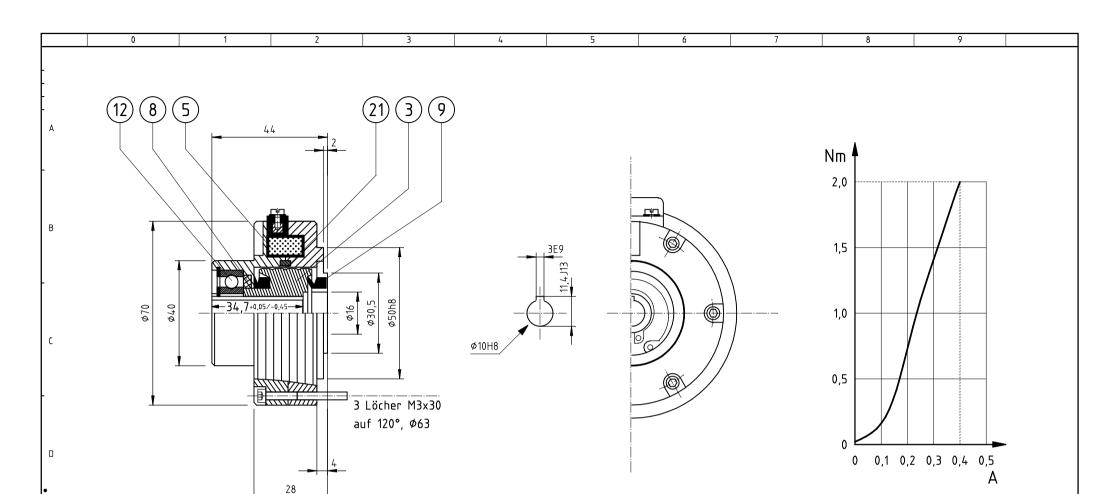
Please read carefully before starting operation! 2. Installation • 1. Should any damage occur due to disregard of the following instructions the guarantee expires and the manufacturer is free from any obligations. Installation of the device must be carried out with care The device can only be employed under operations parameters in order to prevent damaging of bearing and packing. Any use of not exceeding the nominal capacity of the clutch or brake. force impairs the function. The borehole present should be lightly Maximum torque and highest permissible power loss must be stictly smeared with a rust proofing grease. The system being lubricated observed. The available voltage must correspond to the operation for life, any other lubrication with oil or grease is not admitted voltage indicated on the identification plate. When a clutch of the as it would impair the performance of the device. E(R)AT ... -Type is used, the distance between the brush holders and the slide ring must correspond to the measure indicated 3. Starting operation: Clutches and brakes should be taken into operation by means on the table of dimensions. If a brake is used, there is no slide ring and the connection is of short current pulses to allow proper distribution of the macnetic effectuated directly on the coil. Thereupon it must be checked particles. Thereupon the rotor speed correspond to the use required. that no body contact takes place. 4. Dismounting, Repairs : 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. Instructions for repair are supplied on request free of obligation. In such a case an additional fan should allow reliable Upon disassembly of clutches and brakes any shock by knocks and shoves dissipation of the heat developped. must be prevented. When removing the rotor a brace can be used. 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.

Vertragsnummer

Ŀ	:			Datum	29.12.1993	Zeichnungsnummer/	drawing number	-31/N/// I	IENTVE	operating instructions	Komm.Nr		٧
)			Bearb.	KIPP		225		IEDTKE triebstechnik	'			L
Ŀ	1			Gepr.		1.12325		V = An	triebstechnik			onenal Information	
Г	Änderung	Datum	Name	Norm		Einbauort:	Ersatz fuer:	Ursprung:	20.10.2011		"	ieneral-Information	

	0	1	2	3	4		5	(6	7	8		9		
-															
_	Repair ins	structions	5:												
A -	Clutches	EAT 20 ERAT 20	314 330 00 314 335 00		313 930 313 935		Brak		FAT 20 RR	314 320 00 314 370 00 314 325 00	FAT 5 FAT 5 FRAT FRAT	50 RR 50	313 920 00 313 927 00 313 925 00 313 926 00))	
	"R" = heat s "RR"= remnar						Importa	ant not	e !		INAI	JO 1(1)	313 720 00	,	
В	disassembled	in the follow	-				The ma betwee (not ir	ignetic n the i nto the	powder must t internal rotor hollow space	and the exter in which the	rnal rotor field coil is	•			
-	During assem the size of u	bly, refer to nit to be rep	the sectional aired.	drawing for			Be sur approv	e to us ed for	se only the am the particular	ount and part type of cluto	ticle size of ch / brake.	magnet	ic powder		
С	with the sl slipring fro	ipring or coil m the coil, ar	ne clutch / bra connectors up nd remove the the housing.	ake on a workbe . Disconnect the screws	ench		Then in	The old magnetic powder must not be re-used. Then insert the coil and brass ring, replace the second housing half and screw it down. Then insert the circlip ring							
-	the screws housing hal	, and take ap	part the housing the brass ring	rnal rotor, remo ng. This leaves t g and the			on the opposite side, secure the slipring assembly and make the connections with the coil. Spare parts: *) Only available as a complete repair kit								
D	3. After remo lift the bal	ving the circl l bearings an	lip rings from t nd seals from t	the ball bearing, the housing half			Item 3 5	Pcs 1	Type 20 Internal rot Field coil 24			Stock-No. 314 320 04	14		
•			the housing h of magnetic po	nalves and the owder.			60 40 -	1 1 4	Brush holde Slipring				314 320 06 314 310 60 314 310 40 130 518 141	0	
-	halves and	fix them usir	all bearings in ng circlip rings -ring) on the h				12 9 8	$-\frac{4}{1}$	Ball bearing V- ring seal Felt ring se	l		314 300 7			
• E	of the inte	rnal rotor. P		al rotor into the	e ball		21	-	Magnetic po	wder 6,5 g	gr /50 μ		314 300 2	:1	
	using a circ						Item	Pcs	Type 50				Stock-No	II	
•	have the h Heat them As clutches	eat sinks shr slightly if th s are balance	at sink, e.g. Ty runk on. ey need to be d with the hea exactly the san	at sink fitted,	Т		3 5 60 40 	$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	Internal rote Field coil 24 Brush holde Slipring Carbon brus	ction tag 3x	4x13mm	313 900 03 313 920 05 314 310 60 313 910 40 3mm 130 518 141			
F							9 <u>8</u> 21	2 1-	Ball bearing V- ring seal Felt ring se Magnetic po	l al	/50 μ		313 900 7 313 900 2		
c b a Änderung	Datum 30.09. Bearb. KIPP	Zeich	nnungsnummer/ draw 1.1148	-	LIED Antriebs rung: 20.10.2	technik	Repair instruction (Clutches / Br Type 20/50			Komm.Nr Magnetic	-particle clu	ıtch/bra	ike-20-50	Blatt 2	



Applicable for horizontal and vertical 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 a	nd specificati	ons subjekt	to change				axial force	is inadmissib	le	admissible max. radial force: 285				
rated	residual		field values	•	resistance	oponatio	as times	max. admiss	ible power lo)SS	mass moment of inertia			
torque	torque	maximum	values	rated current	at 20°C	operating times		0 min ⁻¹	1500 min ⁻¹	3000 min ⁻¹	ext. rotor	int. rotor	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 [kgm²]	J [kgm²]	m [kg]	
2	0,08	24	24	0,4	24	125	55	40 60*	-	-	-	16-10 ⁻⁶	0,80 0,90*	

*) heat sink "R"

item	amount	parts					
3 5 8 9 12	1 1 1 2 1	internal rotor field coil 24VDC felt gasket V ring gasket ball bearing					
21	-	air gap for magnetic powder					

С			Datum	04.11.2010	Zeichnungsnummer/	drawing number	<i>□ </i>	IENTKE	Type:	FAT 20 RR	314 370 00	Komm.Nr			
b			Bearb.	PAR	7 1000	RR E		EVINE	• •						
a			Gepr.		7.1090 RR E		LIEDTKE Antriebstechnik		00 0 1 0 1		1.0.1	Magaatic	Blatt 3		
Änderung	Datum	Name	Norm		Einbauort:	Ersatz fuer:	Ursprung:	20.10.2011		KK; Kem	nant Rotor	magneric	-particle brake-FA	IZU KK	1 Bl.