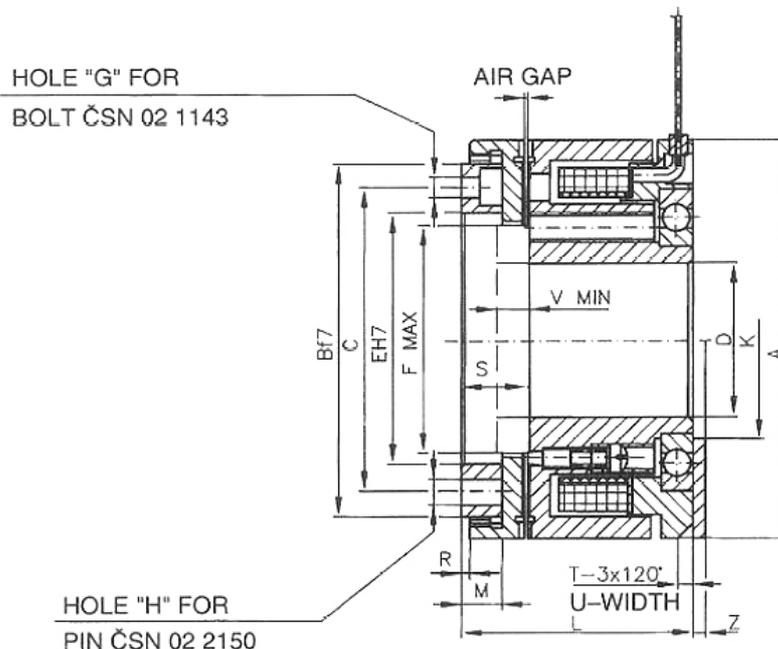


Clutch EZF



The clutches connect the driving and driven part by means of the parts equipped by the spur gearing that are given to the mesh by the effect of the electromagnet and are released by the switching off springs. The drive clutch part is created by the magnet body with the spur gearing. At the magnet body there are further located the forced off pins with the springs and adjusting screws. The driven part shaft of the machine is by the clutch fast seated at the magnet body hole. The clutch driving part consists from the metallic plate with the spur gearing to which the flange from the non-magnetic material is actuated by the external gearing. At the flange there are gripped the permanent magnets for anchor at switched off condition gripping. The torque is transmitted by the spur gearing of the armature and magnet body from the driving to driven part. The exciting coil is

fastened on the carrier that is seated on the antifriction bearing on the magnet body. Two coil outlets are taken out by the insulated rope of length about 300 mm. The carrier of the coil does not rotate. The clutch can be thrown in rest only, at synchronous revolutions, and/or also at small difference at the revolutions number, at sufficient flexibility of the drive and the small mass moment of the driven parts inertia. The disconnection can be executed at any allowed revolutions and transmitted torque. The claw clutches are suitable for the dry and also lubricated environment. At the dry run the ringless clutch is supplied with the cover against the dust penetration to the ball bearing. The claw clutch shifted electrically has smaller dimensions in comparison with the multi-plate clutch of identical torque actuated electrically.



Clutch EZF

Size	4	6,3	25	40
Main Technical Data				
Nominal torque (Nm)	40	63	250	400
Field coil - voltage (V)	24	24	24	24
Field coil – current at 20°C (A)	0,91	1,2	2,2	2,1
Field coil - current at 20°C (A)	21,84	28,8	52,8	50,4
Air gap when clutch is disconnected (mm)	0,45	0,5	0,6	0,6
Max. speed (rpm)	7500	6500	5000	4500
Moment of inertia "J" - magnetic body (kgm ²)	0,0003	0,0006	0,003	0,0053
Moment of inertia "J" - armature with flange (kgm ²)	0,0003	0,0005	0,002	0,0041
Max. unbalance of complete magnetic body (gmm)	34	46	72	103
Weight (kg)	1,4	2	4,2	5,7
Dimensions (mm)				
Diameters				
A -0,2	75	85	118	132
B f7	65	75	105	115
C ±0,1	55	62	90	100
D H7 (done boring with nib fillet)	20	25	40	45
	25	28	45	50
	28	30	50	55
E H7	45	50	75	85
F max	38	43	68	75
G bolt/numer	M4 x 4	M5 x 4	M6 x 4	M6 x 6
H bolt/numer	5 x 2	5 x 2	8 x 2	8 x 3
K	40	45	65	70
Lengths				
L	54	58	70	75
M	9	9	13	15
R	2	2	3	3
S	16	16	20	23
T	5	5	6	6
U	6	6	8	8
Vmin	9	9	10	10
Z	2,5	2,5	3	3
ball-bearing of series 160	16007	16008	16012	16013