VID29-04/07 Precaution of Pointer Assembly 指針装配要點

Description 描述	Diagram 图解	Specification 标准		Possible problems when over limit	Remarks 备注
			Unit 单 位	超标后可能引起的问题	
Maximum Push On Force 最大壓力	↓ Push Force < 180N	180 max.	N	Wire damaged/ Wire broken/ Gear damage/ Abnormal Noise/ Gear & shaft mounting is damaged 断线\ 线伤\ 齿伤\ 杂音\ 齿轮与指针 轴埋注受伤	Proper fixing motor on PCB. Proper supporting during assembly. 电机需正确装上PCB;
Minimum Assembly Support 最小裝配支持	Push Force	Dia.25 min.	mm	Wire damaged/ Wire broken/ Gear damage/ Abnormal Noise/ Gear & shaft mounting is damaged 断线\ 线伤\ 齿伤\ 杂音\ 齿轮与指针 轴埋注受伤	Concrete base support should be located within +/- 1.0mm concentricity to the motor
Maximum Pull Out Force 最大撥出力	Pull Force < 90N	90 max.	N	Wire damaged/ Wire broken/ Gear damage/ Abnormal Noise/ Gear & shaft overmoulding damage/ Low pull out force 断线\线伤\ 齿伤\ 杂音\ 齿轮与指针轴埋注受伤\ 低拔出力	Repetivitive push & pull force should also be avoided. This could weaken overmoulding force between gear and shaft, then it induce low pull out foce.
Maximum Perpendicular Force 最大橫向力	Force < 13 N	13 max.	N	Output shaft bend/ Non-concentric rotation of output shaft 轴弯\ 转动晃动	Excess perpendicular force should be avoided to bend the shaft. 需避 死过 大 横 向力,防止 轴弯 .
Maximum Force Inclination 最大力傾斜度	<4.1° Push Force	4.1max.	degree	Output shaft bend/ Non-concentric rotation of output shaft 轴弯\ 转动晃动	Excess inclination of applied force should be avoided to bend the shaft. 施加外力時,需避免外力 过大傾斜 ,防止 轴弯 .
Maximum Straightness Deviation of Pointer Assembly 最大指針裝配 垂直度偏差	Pointer	0.10 max.	mm	Output shaft bend/ Non-concentric rotation of output shaft. 轴弯\转动晃动	Pointer straightness should be maintained within 0.1mm during assembly. Excess inclination could induce excess perpendicular force and bend the shaft. 當裝配時
Maximum Assembly Speed 最高裝配速度	Max. Assembly Speed 3 mm/sec.	3 max.	mm/sec	Gear damage/ Gear & shaft mounting is damaged 齿伤\ 齿轮与指针轴埋注受伤	Excess assembly speed could induce excess force on gears. 装配速度太快会令齿轮受力过大.
Maximum External Torque 最大外加扭力	External Torque < 40 mNm	40 max.	mNm	Gear damage/ Gear & shaft overmoulding damage / Low pull out force / Stopper damage (360 Degree Rotate) 齿伤\ 齿轮与指针轴埋注受伤\ 低拔 出力\ 限位受伤	Excess external torque applied on shaft would weaken overmoulding force between gear and shaft. It induce low pull out force. 过量外加扭力,齿轮和轴的埋注会弄伤. Repetivtive external torq
Maximum Imposed Acceleration 最高外加加速率	Imposed Acceleration <> 1000 rad?s	1000 max.	rad/s ²	Gear damage 齿伤	Excessive imposed acceleration would induce excessive force on gears, it must be avoided. 过高外加加速率,能引起齿轮上產生过大應力,必須避免.