

上海良信电器股份有限公司
Shanghai Liangxin Electrical Co., Ltd.
NDKB3-63 控制与保护开关电器
NDKB3-63 Control and Protective Switching Device
产品规格书
Product Specification
(IPD-ENG-DEV-T20 A1 2016-09-23)

编制	日期
Prepared by	Date
审核	日期
Reviewed by	Date
会签	日期
Countersigned by	Date
批准	日期
Approved by	Date

修订记录 Revision History					
版本 Version	修订原因/内容 Revision Reason/Content	实施日期 Implementation Date	编制人 Prepared by	审核人 Reviewed by	批准人 Approved by
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1、适用范围与用途

1. Applicable Scope and Purpose

NDKB3 系列控制与保护开关电器主要应用于交流 50Hz、额定工作电压 690V 及以下、额定工作电流 0.3A~63A 的低压配电与电动机控制与保护电路。

NDKB3 series control and protective switching devices are mainly used in low-voltage power distribution and motor control and protective circuits with AC 50Hz, rated working voltage 690V and below, and rated working current 0.3A~63A.

产品是一种集成技术产品，结构紧凑，环保节能，安装方便，操作简单；数字电子控制系统智能化程度高，功能可靠完善。

The product is an integrated technological solution characterized by a compact structure, environmental friendliness, and energy efficiency. It facilitates easy installation and simple operation. The digital electronic control system is highly intelligent, ensuring reliable and comprehensive functionality.

产品是一种多功能开关电器，具备电路过载与短路保护能力，分断能力高；具备电路负载的合分控制功能，操作寿命长，可靠性高；可通讯控制开关的合分，适用自动控制系统和远程控制系统。

The product is a multifunctional switching device, with circuit overload and short circuit protection ability, high breaking capacity; with circuit load control function, long operating life, high reliability; communication control switch closing and closing, applicable to automatic control system and remote control system.

2、产品图片

2. Picture of the Product



3、规格型号说明

3. Specification and Model Description

ND KB 3- □ □ / □ □ □
1 2 3 4 5 6 7 8

序号 SN	名称 Name	规格、种类代号 Specification, type code	说明 Description
1	企业代号 Enterprise code	“Nader” 牌低压电器 "Nader" brand low-voltage apparatus	
2	产品代号 Product code	KB-控制与保护开关电器 KB-control and protective switching device	

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3	设计序号 Design SN	3	
4	壳架等级电流 (A) Shell frame level current (A)	63	
5	短路分断能力 Ics (kA) Short-circuit breaking capacity Ics (kA)	H-50kA	
6	额定电流 (A) Rated current (A)	1.2、2.4、6、12、18、32、45、63 1.2, 2.4, 6, 12, 18, 32, 45, 63	
7	控制电源电压代号 Us Control supply voltage code Us	M-AC230V; M-AC230V;	
8	控制器类型 Controller type	S-标准型、T-通讯型、SU-标准型带电压保护 S-Standard, T-Communication, SU-Standard with voltage protection	

4、主要技术参数

4. Main Technical Parameters

表 1 主要技术参数 (主电路)

Table 1 Main technical parameters (main circuit)

		NDKB3-63							
产品符合标准 The product complies with the standards		GB14048.9, IEC60947-6-2 GB14048.9, IEC60947-6-2							
额定工作电压 Ue Rated operating voltage Ue		AC400V/AC690V							
额定绝缘电压 Ui Rated insulation voltage Ui		AC690V							
额定频率 f Rated frequency f		50Hz							
额定冲击耐受电压 Uimp Rated impulse withstand voltage Uimp		6kV							
约定发热电流 Ith(A) Agreed thermal current Ith (A)		12			32		63		
额定工作电流 Ie (A) Rated working current Ie (A)		1.2	2.4	6	12	18	32	45	63
使用类别 Utilization category		AC-43,AC-44							
额定运行短路分断能力 Ics Rated operating short circuit breaking capacity Ics		AC400V:50kA			AC690V:4kA				
短路脱扣器动作时间 Action time of short-circuit trip		≤2ms							
极数 Number of poles		3P							
电气寿命 Electrical life	AC-43(400V)	100×10 ⁴							
	AC-44(400V)	3×10 ⁴							
	操作频次 Operation frequency	300 次/h 300 times/h							
机械寿命 Mechanical life		1000×10 ⁴							
主回路接线能力 Main circuit wiring		单根 1~40mm ² 软线或硬线 One 1~40mm ² flexible or rigid cable			2 根 1~20mm ² 软线或硬线 Two 1~20mm ² flexible or rigid cables				
主回路拧紧力矩 Main circuit tightening torque		2N.m							
辅助端子接线能力 Auxiliary terminal wiring capability		单根 0.75~1.5mm ² 软线或硬线 One 0.75~1.5mm ² soft or hard cable			2 根 0.75~1.0mm ² 软线或硬线 Two 0.75~1.0mm ² flexible or rigid cables				

控制端子接线能力 Control terminal wiring capability	单根 0.75~2.5mm ² 软线或硬线 One 0.75~2.5mm ² soft or hard cable	2 根 0.75~1.5mm ² 软线或硬线 Two 0.75~1.5mm ² flexible or rigid cables
辅助和控制回路拧紧力矩 Auxiliary and control circuit tightening torque	0.5~0.8N.m 0.5~0.8N.m	

表 2 主要技术参数（额定电流与控制功率）
Table 2 Main technical parameters (rated current and control power)

壳架等级 Shell frame level	额定工作电流 Ie (A) Rated working current Ie (A)	过载整定电流范围 Ir1 (A) Overload setting current range Ir1 (A)	可控制电动机功率 Pe (kW) Controllable motor power Pe (kW)	
			400VAC	690VAC
NDKB3-63	1.2	0.3~1.2	0.07~0.5	0.13~0.86
	2.4	0.6~2.4	0.15~1.0	0.25~1.8
	6	1.5~6	0.52~2.8	0.9~5.0
	12	3~12	1.1~6.0	2.0~10
	18	7.2~18	3.0~9.5	5.0~16
	32	12~32	5.0~16.5	8.5~29
	45	18~45	7.1~23.5	14~43
	63	25~63	10~35	19~60

表 3 主要技术参数（控制与辅助电路）
Table 3 Main technical parameters (control and auxiliary circuits)

壳架等级 Shell frame level	产品参数 Product Parameters		
NDKB3-63	控制电路 Control circuit	电源电压 Us (V) Supply voltage Us (V)	230VAC/50Hz
		电磁铁最大功耗 (W) Maximum power consumption of electromagnet Pmax (W)	4
		电磁铁动作时间 (ms) Action time of electromagnet (ms)	闭合<20, 断开<30 Closed <20, Disconnected <30
	辅助开关电路 Auxiliary switching circuit	2NO+2NC	Ith: 5A, Ue: 230VAC, Ie: 5A (AC-15) Ith: 5A, Ue: 230VAC, Ie: 5A (AC-15) Ue: 110VDC, Ie: 0.55A (DC-13) Ue: 110VDC, Ie: 0.55A (DC-13) Ue: 24VDC, Ie: 5A (DC-13) Ue: 24VDC, Ie: 5A (DC-13)
	辅助信号电路 Auxiliary signal circuit	2NO+1NC	Ith: 5A, Ue: 230VAC Ie:2A (AC-15) Ith: 5A, Ue: 230VAC Ie:2A (AC-15)
	控制器报警电路 Controller alarm circuit	1NO	Ith: 5A, Ue: 230VAC Ie:2A (AC-15) Ith: 5A, Ue: 230VAC Ie:2A (AC-15)
	通讯模块电路 Communication module circuit	Ue: 24VDC Ue: 24VDC	

表 4 控制器类别
Table 4 Controller categories

代号 Code	保护功能 Protection function	特定功能 Specific function
S 型 S-Type	保护功能见表 5 See table 5 for protection functions.	配置显示屏和按键, 可进行菜单设置和操作, 可查询电路状态, 功能见表 6 Equipped with a display screen and buttons, the device allows for menu settings and operations. Users can easily check the circuit status and refer to Table 6 for functions.
SU 型 SU-Type	相比 S 型增加过、欠电压保护功能 Added overvoltage and undervoltage protection compared to the S-Type	配置与标准型(S 型)控制器相同 Configuration is the same as the standard (S-Type) controller

T 型 T-Type	与标准型(S 型)相同 Same as the standard (S-Type)	配置与标准型(S 型)控制器相同, 带通信接口, 可进行数据传输、远程控制、状态监测、功能参照设定等 Configuration is the same as the standard (S-Type) controller, with a communication interface for data transmission, remote control, status monitoring, function reference settings, etc.
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表 5 控制器功能(保护功能和参数)

Table 5 Controller functions (protection functions and parameters)

序号 SN	设置项目 Setting items		设置范围 Setting range	默认设值 Default setting	误差 Error
1	额定电流 I_e (A) Rated current I_e (A)		见表 2 See Table 2	按额定电流 By rated current	
2	整定电流 I_r (A) Setting current I_r (A)		见表 2 See Table 2	按额定电流 By rated current	
3	负载类型 Load type		单相、三相 Single-phase, three-phase	三相 Three-phase	
4	复位方式 Reset mode		手动、自动 Manual, automatic	手动 Manual	
5	短路瞬时保护 Short circuit instantaneous protection		开启、关闭 On, off	开启 On	
	保护方式 Protection mode		(制造厂设定) (Set by the manufacturer)	脱扣 Tripping	
	动作电流(A) Action current (A)	电机型 Motor type	(制造厂设定) (Set by the manufacturer)	14.0 I_r 1	
		配电型 Power distribution type	(制造厂设定) (Set by the manufacturer)	10.0 I_r 1	
	动作时间 (ms) Action time (ms)		瞬时 (固有时间) Instantaneous (intrinsic time)	瞬时 Instantaneous	
6	短路短延时保护 Short circuit short-time delay protection		开启、关闭 On, off	开启 On	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	脱扣 Tripping	
	整定 电流 Setting current	电机型 Motor type	(6.0~12.0) I_r 1 (6.0□12.0□ I_r 1	9.0 I_r 1	
		配电型 Power distribution type	(2.0~12.0) I_r 1 (2.0~12.0) I_r 1	6.0 I_r 1	
	动作时间 (S) Action time (s)		0.2、0.3、0.4、0.5 0.2, 0.3, 0.4, 0.5	0.3	
7	过载保护 Overload protection		开启、关闭 On, off	开启 On	

7	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	脱扣级别 Tripping level	电机型 Motor type	5、10A、10、15、20、25、30 5, 10A, 10, 15, 20, 25, 30	10	
		配电型 Power distribution type	5、10、15、30、60、90、120、240 5, 10, 15, 30, 60, 90, 120, 240	15	
8	断相保护 Open-phase protection		开启、关闭 On, off	开启 On	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作时间 (s) Action time (s)		1~20	5	±20%
9	欠电流保护 Undercurrent protection		开启、关闭 On, off	关闭 OFF	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作电流 (A) Action current (A)		(0.2~0.8) Ir1 (0.2~0.8) Ir1	0.2Ir1	
	动作时间 (s) Action time (s)		1~200 1 to 200	10	±20%
10	堵转保护 Blocking protection		开启、关闭 On, off	关闭 OFF	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作电流 (A) Action current (A)		(5.0~9.0) Ir1 (5.0-9.0) Ir1	6.0Ir1	
	动作时间 (s) Action time (s)		1~50	5	±20%
11	三相不平衡保护 Three-phase unbalance protection		开启、关闭 On, off	关闭 OFF	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	不平衡度 Unbalancedness		10%~100%	40%	
	动作时间 (s) Action time (s)		1~20	10	±20%
12	启动超时保护 Startup timeout protection		开启、关闭 On, off	关闭 OFF	
	保护方式 Protection mode		分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作电流 (A) Action current (A)		(1.0~4.0) Ir1	1.5Ir1	

	Action current (A)	(1.0~4.0) Ir1		
	动作时间 (s) Action time (s)	1~200 1 to 200	10	±20%
13	欠压保护 Undervoltage protection	开启、关闭 On, off	开启 On	SU 型 SU-Type
	保护方式 Protection mode	分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作电压(V) Action voltage (V)	(50%~90%)Us (50% ~ 90%) Us	80%Us	
	动作时间(s) Action time (s)	1~60	10	±20%
14	过压保护 Over	开启、关闭 On, off	开启 On	SU 型 SU-Type
	保护方式 Protection mode	分闸、脱扣、报警 Opening, tripping, alarm	分闸 Off	
	动作电压(V) Action voltage (V)	(110%~150%)Us (110% ~ 150%) Us	120%Us	
	动作时间(s) Action time (s)	1~60	10	±20%
15	过载预警保护 Overload warning protection	开启、关闭 On, off	关闭 OFF	
	保护方式 Protection mode	报警 Alarm	报警 Alarm	
	报警值 Warning value	(20%~80%) Ir1 (20% ~ 80%) Ir1	80%Ir1	
注: 额定电流情况下电流测量准确度为±10%, 短路情况下电流测量准确度为±20%				
Note: The accuracy of current measurement is ±10% under rated current and ±20% under short-circuit conditions.				

表 6 控制器功能动作说明

Table 6 Controller functions and actions

功能项目 Functional items		动作状态说明 Action state	
脱扣 Tripping	短路故障 Short-circuit fault	机构脱扣, 控制电磁铁释放动作, 开关主电路断开 Mechanism disengaged, controlling electromagnet release action, main circuit switch disconnected	
分闸 Off	其它故障 Other faults	机构不脱扣, 控制电磁铁释放动作, 开关主电路断开 Mechanism engaged, controlling electromagnet release action, main circuit switch disconnected	
控制器复位 Controller reset	手动复位 Manual reset	开关分闸状态 Switch opening state	断开控制电源 (A1/A2), 重新接通控制电源即可复位 Disconnect the control power (A1/A2), and reconnect the control power supply for reset
			在监测显示状态下, 按确认键复位 In the monitoring display state, press the confirmation key to reset

			通讯型可通过 485 通讯, 可进行远程复位 Communication model can communicate via 485 for remote reset.
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		开关脱扣状态 Switch trip state	旋转手柄，先复位再转到就绪，即可复位 Rotate the handle, reset first and then turn it to the "ready" position for reset
	自动复位 Automatic reset	开关分闸状态 Switch opening state	电机型过载故障，热容值降到 20 之内，自动复位 For motor type overload fault, automatic reset occurs when the thermal capacity drops below 20
			其它故障，复位时间为 60s 之后 For other faults, reset occurs after 60s
			在远程模式下，自动复位时间到，需接收远程复位命令后才能复位 In remote mode, a remote reset command must be received to initiate a reset after the automatic reset countdown has completed.
分闸与脱扣测试 Opening and tripping test		开关负载分闸与脱扣测试均可按键进入菜单操作进行 Switch load opening and tripping test can be carried out by pressing the key to enter the menu	
远程操作功能 Remote operation function		在远程模式下，脱扣分闸复位等只能在远程端进行操作，不能就地操作 In remote mode, operations such as trip, opening, and reset can only be performed at the remote end and cannot be carried out locally	
热记忆功能 Thermal memory function		有热记忆功能；散热系数默认设置 200； There is a thermal memory function; the default setting of the heat dissipation coefficient is 200; 散热系数：20、50、100、200、300、500、1000；系数越低，过载分闸后热容下降越快 Heat dissipation coefficient: 20, 50, 100, 200, 300, 500, 1000; the lower the coefficient, the faster the heat capacity decreases after the overload opening.	

表 7 控制器功能 (特定功能)

Table 7 Controller functions (specific functions)

	功能类别 Function category	功能说明 Function description	备注 Remarks
1	通讯功能 Communication function	采用 485 通讯模块, Modbus 总线通讯协议 Adopts 485 communication module and Modbus Communication Protocol	
2	键盘锁定 Keyboard lock	控制器的菜单具有密码锁定功能, 防止无关人员误操作 The menu of the controller has a password locking function to prevent misoperation by unrelated personnel	
3	测量功能 Measuring function	测量三相电流、控制电源电压、热容、三相不平衡度等数据 Measurement of three-phase current, control power supply voltage, heat capacity, three-phase unbalance, and other data	

4	日志功能 Logging function	记录最近 10 次故障类型, 故障电流、电压、剩余电流等数据 Record the last 10 fault types, fault currents, voltages, residual currents, and other data.	
5	监视功能 Monitoring function	监视开关的各种状态、状态参数 Monitor various states and state parameters of the switch	
6	自动复位 Automatic reset	电路故障(短路故障除外)、开关保护断开后(电磁铁动作), 手柄仍处于“就绪”位置, 开关可自动复位 The switch can be reset automatically when the handle is still in the "ready" position after a circuit failure (except for short-circuit faults) or when the switch protection is disconnected (electromagnet action).	
7	信号输出 Signal output	就绪和故障信号输出 Ready and fault signal output	

5、正常工作环境

5. Normal Working Environment

正常工作周围空气温度-5~+40℃, 短时间温度限制(8 小时内)-15℃~+70℃

Normal operating ambient air temperature range is -5°C to +40°C, with a short-term temperature limit (within 8 hours) of -15°C to +70°C.

温度为+40℃时, 空气的相对湿度不超过 50%, 在较低温度下可以有较高的相对湿度, 月平均最低温度为+25℃时, 该月平均最大相对湿度为 90%, 对由于温度变化偶尔产生的凝露应采取特殊的措施。
The relative humidity of the air shall not exceed 50% at a temperature of +40°C. Higher relative humidity is possible at lower temperatures, and the average maximum relative humidity for the month shall be 90% at an average monthly minimum temperature of +25°C. Special measures shall be taken for occasional condensation due to temperature changes.

海拔高度: ≤2000m (每升高 1000m 降容 10%)

Altitude: ≤2000m (10% reduction in capacity for every 1000m of elevation)

产品应安装在无明显振动和冲击的地方。

The product should be installed in a place free from significant vibration and shock.

6、脱扣特性

6. Tripping Characteristics

NDKB3 系列产品配备电子式脱扣器, 具有过载延时、短路短延时、短路瞬时等保护特性, 参见表 5 控制器保护功能。

NDKB3 series products are equipped with electronic tripper, with overload delay, short circuit short delay, short circuit instantaneous and other protection features, see Table 5 for controller protection function.

6.1 过载脱扣器

6.1 Overload tripper

产品过载保护方式分电动机保护方式和配电保护方式, 可依据负载类型进行选择;

The product overload protection mode is divided into motor protection mode and distribution protection mode, which can be selected according to the type of load;

产品设置有多条过载保护曲线以供选择, 为用户提供适用的保护特性。产品的过载保护特性是按照

GB/T14598.15 冷态曲线反时限特性来模拟电动机的过热保护。

Multiple overload protection curves are available to provide users with suitable protection characteristics. The overload protection characteristic of the product is in accordance with GB/T14598.15 Cold state inverse time characteristic to simulate the overheating protection of the motor.

产品具有热记忆保护功能，可防止电动机在温升过高的情况下重新启动，散热系数可菜单设定。
The product has a thermal memory protection function that prevents the motor from restarting when the temperature rise is too high, and the heat dissipation coefficient can be set in the menu.

电动机处于热状态，在热记忆保护情况下，需要启动时，可在菜单中进行“过载复位”，将电机热状态复位为“0”，然后可重新启动电动机。

If the motor is in a hot state and needs to be started under thermal memory protection, the motor can be restarted by resetting the hot state of the motor to "0" using the Overload Reset menu.

表 8 NDKB3 系列产品过载保护特性表（电动机保护方式）

Table 8 NDKB3 series products overload protection characteristics (motor protection method)

试验 Test	Ir 倍数 Ir multiples	动作时间 t1 (s) Action time t1 (s)							时间允差 Time tolerance	状态 State
A	1.05	2h 内 CPS 不动作（开关闭合） CPS inactive within 2h (switch closed)							—	冷态开始 Cold state start
B	1.2	1h 内 CPS 动作（开关断开） CPS action within 1h (switch disconnected)							—	接 A 试验 Continue A test
C	1.5	30	39	50	72	93	115	151	±20%	热态 Warm state
D	7.2	0.5 < Tp≤5	2< Tp≤10	4< Tp≤10	5< Tp≤15	6< Tp≤20	7< Tp≤25	9< Tp≤30		冷态开始 Cold state start
脱扣级别 Tripping level		5	10A	10	15	20	25	30		
注：1） 使用类别：AC-42、AC-43、AC-44 Note: 1) Category of use: AC-42, AC-43, AC-44 2） 周围空气温度：-5℃、+20℃、+40℃ Ambient air temperature: -5℃, +20℃, +40℃ 3） 脱扣器型式：电子式反时限过载脱扣器 3) Tripper type: Electronic reverse time overload tripper 4） 热态平衡条件：1.0Ir, 20min 4) Thermal equilibrium conditions: 1.0Ir, 20min										

表 9 NDKB3 系列产品过载保护特性表（配电保护方式）

Table 9 NDKB3 series products overload protection characteristics (distribution protection method)

试验 Test	Ir 倍数 Ir multiples	动作时间 t1 (s) Action time t1 (s)	时间允差 Time tolerance	状态 State
A	1.05	2h 内 CPS 不脱扣（开关闭合） CPS does not trip within 2h (switch closed)	—	冷态开始 Cold state start
B	1.3	1h 内 CPS 脱扣（开关断开）	—	接 A 试验

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		CPS trip within 1h (switch disconnected)									Continue A test
C	1.5	7	12	17	34	65	100	130	250	±20%	冷态开始 Cold state start
脱扣级别 Tripping level		5	10	15	30	60	90	120	240		
注: (1) 使用类别: AC-40、AC-41、AC-45a、AC-45b Note: (1) Category of use: AC-40, AC-41, AC-45a, AC-45b (2) 周围空气温度: +30℃ (2) Ambient air temperature: +30℃ (3) 脱扣器型式: 电子式反时限过载脱扣器 (3) Tripper type: Electronic reverse time overload tripper											

6.2 短路脱扣器

6.2 Short-circuit tripper

表 10 NDKB3 系列产品短路脱扣器保护特性

Table 10 NDKB3 series products short-circuit breaker protection characteristics

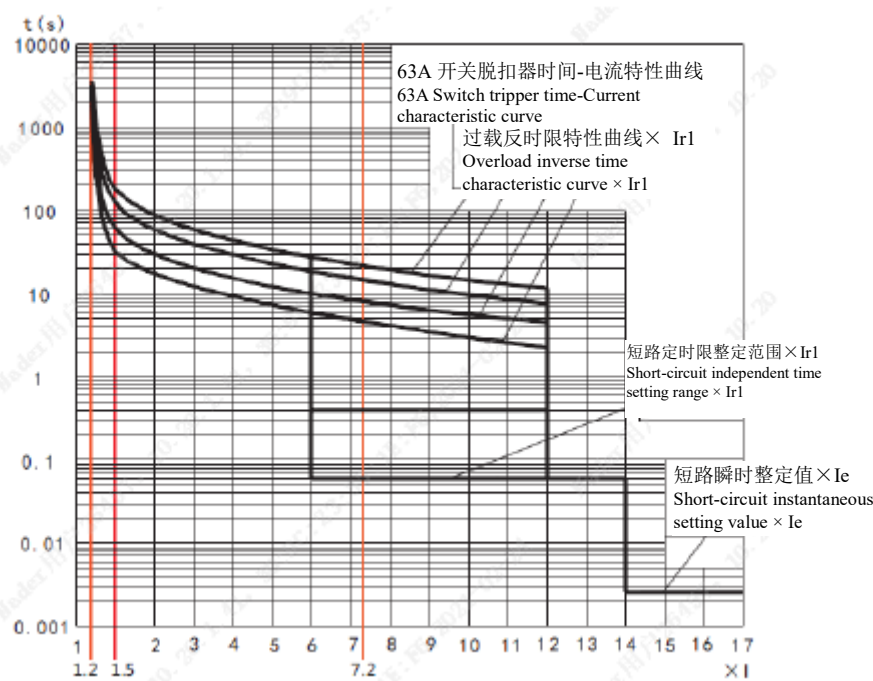
		脱扣电流 Tripping current	脱扣时间 Tripping time
短路瞬时保护 Short circuit instantaneous protection		短路电流 $I \geq 14I_e$ Short-circuit current $I \geq 14I_e$	$<2\text{ms}$ 瞬时脱扣 $<2\text{ms}$ Instantaneous trip
短路短延时保护 Short circuit short-time delay protection	电动机保护 Motor protection	整定值 $(6.0 \sim 12) I_r$ Setting value $(6.0 \sim 12) I_r$	0.06、0.1、0.2、0.3、0.4 整定时间内脱扣 0.06, 0.1, 0.2, 0.3, 0.4 tripping within the setting time
	配电保护 Power distribution protection	整定值 $(2.0 \sim 12) I_r$ Setting value $(2.0 \sim 12) I_r$	
注：动作电流值准确度 $\pm 20^{\circ}\text{C}$ Note: Accuracy of action current value $\pm 20^{\circ}\text{C}$			

6.3 脱扣器时间—电流特性曲线

6.3 Tripper time-Current characteristic curve

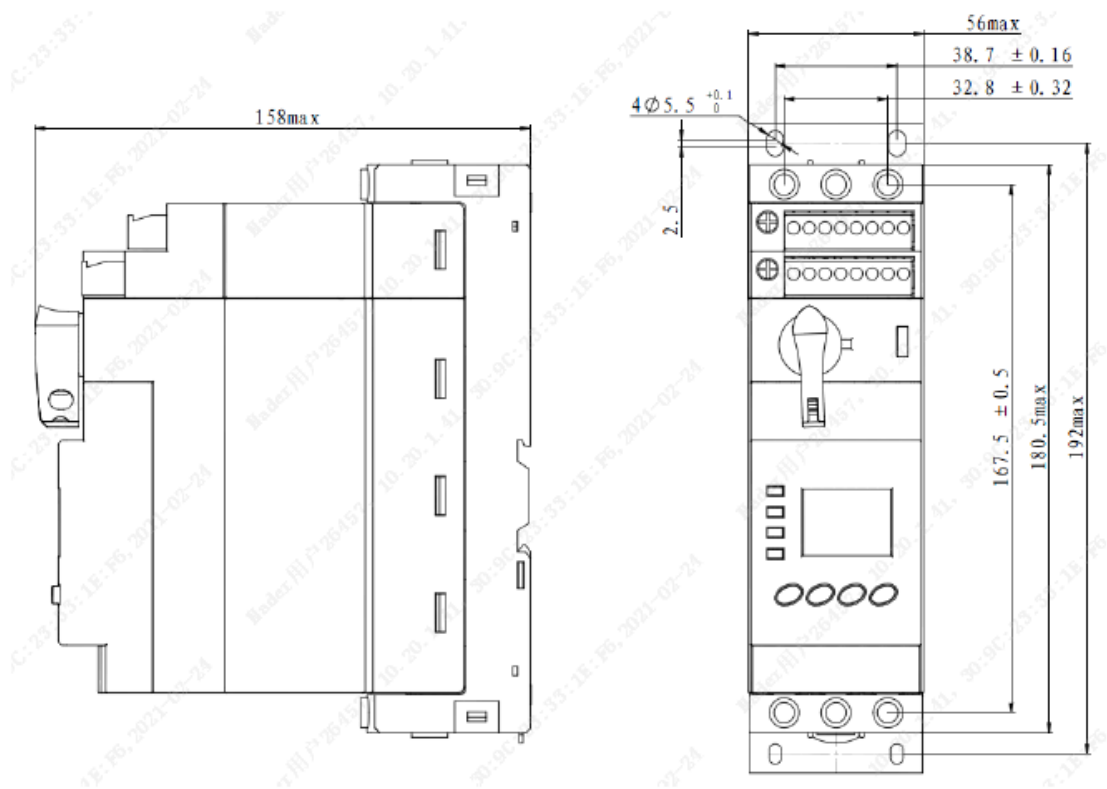
产品动作时间—电流特性曲线 (电动机保护):

Product action time-Current characteristic curve (motor protection)



7、产品外形及安装尺寸

7. Product Dimension and Installation Dimensions



8、安装方式

8. Installation Mode

NDKB3-63 35mm 卡规安装或螺钉安装;

NDKB3-63 35mm snap gauge or screw mounting;

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9、包装储存

9. Packaging and Storage

产品储运环境应阴凉通风, 无显著冲击振动, 无阳光直射、雨淋、灰尘、化学气体腐蚀等状况。适用环境温度范围-25℃~+55℃, 短时间内(24h)可达+70℃;

Product storage and transportation environment should be cool and ventilated, no significant shock vibration, no direct sunlight, rain, dust, chemical gas corrosion and other conditions. The applicable ambient temperature range is -25°C to +55°C, with a short-term tolerance of up to +70°C within a 24-hour period.

10、环保符合性

10. Environmental Compliance

符合 RoHS 2.0

Comply with ROHS 2.0

11、附件清单及安装

11. List of Accessories and Installation

无

None

12、注意事项

12. Precautions

安装本产品时, 请核对产品规格型号及电压等标识参数, 应符合电路图的技术要求;

When installing this product, please check the product specification model and identification parameters such as voltage, which should comply with the technical requirements of the circuit diagram;

应由具有专业资格的人员进行配线作业和维护;

Wiring operations and maintenance should be carried out by professionally qualified personnel;

使用本产品不应超出其铭牌要求, 否则可能会损坏开关造成电路危害;

This product should not be used beyond its nameplate specifications, as it may damage the switch and pose a circuit hazard;

本产品不应安装在含有易燃易爆气体的环境里, 否则可能会引起事故;

This product should not be installed in an environment containing flammable or explosive gases, as this may cause accidents;

本产品应安装在没有雨雪侵袭的地方。

The product should be installed free from snow and rain.