ACB Special Build Order Form v3.0

Check option boxes with a cross and enter configuration details (voltages etc) where appropriate

• Supply one order form per each ACB configuration



Customer Name: NHP Contact: Project Name: ACB Name: Customer Order Num						
Requested Delivery Da	ate: ACB Carriage:	ACB Body:				
	Required ACB current rating:	Required short	-circuit rating:	Mains 3-	phase voltage:	
	A		kA		VAC	
ACB Type	Enter the above current and short-circuit ra	tings, or select the required ACB model	from the following:	For DC voltag	es please contact NHP	
Required - enter the current and kA rating, or select the appropriate model number	AR2 frame size AR208S AR212S AR212H	□ AR216S □ AR220 □ AR216H □ AR220	AR3 frame size S AR325S A H AR325H A AR326H A AR316H	AR332S AR332H AR320H	AR4 frame size AR6 frame size AR440S AR650S AR440SB AR663S	
	Pole configuration:	ACB quantity:	Select one or bot	h of the follo	wing:	
	□ 3-pole □ 4-pole		🗆 ACB Body		□ ACB Carriage	
Carriage Terminals Required for ACB carriage	Top terminals: Bottom terminals:	Vertical Vertical Vertical	☐ Horizontal☐ Horizontal		□ Front □ Front	
ACB Trip Unit: Trip unit: D TemPro PLUS AGR-21C Standard Trip Unit with ammeter display D TemPro PREMIER AGR-31C Advanced Trip Unit with integral energy analyser D Non-Auto No Trip Unit nor Current Transformers Trip Unit Trip unit current setting (long-time):		C Ilyser - time): A	Trip unit curve typ L Type Standard protection curve (IEC 60947-2, low voltage R Type High selectivity curve for v devices (e.g. Fuses and otl S Type For generator protection (Ground Fault (GF) is not ar For S Type trip unit curve	Trip unit curve type: L Type Standard protection curve for general power distribution and transformer protection (IEC 60947-2, low voltage circuit breakers) R Type High selectivity curve for when selectivity cannot be achieved with other system protective devices (e.g. Fuses and other relays) S Type For generator protection (Lloyds Register of Shipping for marine generator protection). Ground Fault (GF) is not available with this trip unit type. For S Type trip unit curve the generator full-load current must be entered below: Centerator full load current (S Type oph));		
and one curve type, then	The unit current setting (long	umej A	Generator full load	current (5 ryp	c only) A	
complete the trip unit	Trip unit control voltage:	□ 100-120 VAC	□ 100-125 VDC			
select if ground fault is		200-240 VAC For transfer switch applications with A	200-250 VDC	t he 240VAC	□ 48 VDC	
required	Ground fault: Optional trip unit configuration	Disabled	Enabled	100 240 VAC.	□ External Ground fault CT	
	Long time setting (optional): Short time setting (opt.): Instantaneous setting (opt.): Ground fault setting (opt.):	Time:	c Time:	sec	If optional long time, short time, instantaneous and ground fault settings are not nominated, the trip unit will be configured with default values for the selected curve type	
	ACB CT rating (opt):	A	If desired, the protection C cannot be set to less than	T rating may be n 40% of or above 1	ominated. The ACB continuous current 00% of this CT rating	
Special application function:		Trip unit compati	bility: AGR-31			
	For further information on these functions p	lease contact NHP	L R S L	R S	4	
	\Box Ground fault trip (GFI) ^{1) 3})	•••	• • •		
Additional Trip Unit		(NID) 2)			-	
Special Application	Negative-phase sequence	$(NS)^{3}$	•••	• •		
Functions	Reverse power trip (RPT)	3)			1	
Optional - select special	□ 3C Over temperature mo	nitoring and alarm (OH) $^{3)}$			1) Ground Fault CT required for 3-pole ACB	
application functions as	□ Under/Over frequency pr	otection (UFOF) ³⁾			with ground fault, or for 4-pole ACB with	
required	□ Overvoltage alarm (OV) ⁴				2) 4-pole ACB required	
	□ Undervoltage alarm (UV)	4)			3) Only one option selectable per ACB: NS, OH, UFOF, REF and RPT/GFT (L/S curve)	
	□ Restricted Earth Fault (REF	(1) (2) (3)		• •	4) Only one of the following options are	
	Additional Pre-Trip Alarm	(PTA2) ⁴⁾		•	ON/OFF control via MODBUS" function	

Communications Required - select one	□ MODBUS RTU (standard) □ MODBUS TCP □ Ethernet IP □ DeviceNET □ Profibus □ BACnet Please note Modbus TCP, Ethernet IP, DeviceNET, Profibus, BACnet and other protocols are via an external communication gateway				
Tripping Options Optional - select shunt trip options as required	☐ Shunt trip (Continuously rated): Standard shunt trip Please provide operating voltage: Voltage: V ☐ AC ☐ DC If two independent shunt circuits required, select both continuously rated and special shunt controller options. For transfer switch applications with ATyS C55/C65, motor voltage must be 240VAC.	□ Special shunt controller (Continuously rated): Special shunt controller Please provide operating voltage: Voltage: V □ AC □ DC For closed transition applications or if an undervoltage trip is required, select this shunt controller option.	 □ Single-phase undervoltage trip (UVT): Please provide operating voltage and select if instantaneous or time delayed 500ms: Voltage: V □ AC □ DC □ Instantaneous □ Time Delayed 		
Closing Options Required - select either manual charging or motor charging, then select other closing options if required	Manual Charging or Please select either manual charging or motor charging	□ Motor Charging: Supply Voltage:V □ AC □ DC For transfer switch applications with ATyS C55/C65, motor voltage must be 240VAC.			
	Spring charge indicator Optional for either manual charging or motor charging	 Latch Release Coil (LRC):V AC DC Optional with manual charging, required for motor charging Split voltage for charging motor control circuit Separate power supplies for charging motor and LRC. Required if charging motor and LRC voltages are different, optional when voltages are the same (used for TemRack iR integrated remote racking in some cases) ACB ON/OFF control via MODBUS ⁴ Operating voltage for charging motor and LRC must be the same for control via MODBUS 			
Locking-off and Interlocking Accessories Optional - select if off padlock is required, or if key interlocking is required, and select if mechanical interlocking is required	Off Padlock Or Optional padlockable accessory fitted in lieu of key barrel, preventing the ACB from being switched on	 Key Interlocking: If key interlocking is enabled, select one of the below Allen-Bradley ProSafe Fortress Internal key interlock mechanism on 	g: Key code (required): d, select one of the below ProSafe Castell Ronis terlock mechanism only		
	□ Mechanical Interlocking: If mechanical interlock is enabled, select one of the following interlock types and specify the cable length	Type C Two ACBs interlocked. One of Type B Type B Three ACBs are interlocked. Other Other variations are available Catalogue for more details. Cable length: 2m 4m	Type C Two ACBs interlocked. One of two ACBs can be closed Type B Three ACBs are interlocked. One or two ACBs out of three can be closed Other		
Draw-out and Indicator Options Optional - select as required	 Standard included features: Main circuit safety shutter Control circuit safety shutter Control circuit terminal cover Auto spring discharge ⁵) Draw-out handle 7C/O auxiliary switches (AXR−7C) ⁶) 	Optional features: Main circuit safety shutter padlock Door interlock ⁵) Trip indication contact System alarm contact Internal racking handle 10C/O auxiliary switches (AXR–10C) ⁶ Position switches (ALR–2/4C): Ix Insert, Ix Isolated, Ix Test and Ix Connected contacts as standard (1111). Please consult the NHP ACB Technical Catalogue for more configuration options.	 Pre-trip alarm contact (PTA) Reverse power contact (RPT) Individual ground fault contact Individual long-time trip contact Individual short-time trip contact 		
General Accessories Optional - select as required	 Standard included accessories: ☑ Position padlock facility ☑ Padlockable ON/OFF button cover ☑ Door flange IP41 ☑ Instruction manual 	Optional accessories: Open/Close cycle counter Interpole barriers Padlockable IP55 door cover IP55 door cover replaces IP41 door flange Test jumper lead: Quantity: Incorrect insertion device: Select 1x number and 1x letter per incorrect insertion device	 Fixing bolts Lifting plates T2ED external digital display Carriage rear insulation cover 1 2 3 A B C 		
TemRack iR Integrated Remote Racking Optional - select as required	□ TemRack iR integrated remote rackin The following ACB configuration options are required for Te - Motor Charging and LRC (see <i>Closing Options</i>) - Position Switches (see <i>Draw-out and Indicator Options</i>) Please note the racking motor requires a 24VDC power sup If the charging motor operating voltage is also 24VDC, a sep	ng fitted to ACB Body and Carriage mRack iR integrated remote racking: ply. parate power supply must be provided for the racking motor	Local Control Station (LCS) Optional local control station custom manufactured by NHP for remote racking operation. See next page for additional configuration details.		

	Number of ACBs to control \Box 1 \Box 2 \Box 3 \Box Other (please specify)				
	Example of Local Control Station (LCS) for one ACB				
Local Control Station (LCS)	Example of Education (ECS) for Ote ACD I consistent of monotonic register of the signal - flurninated function of the signal - flurninated function of the signal is active I consistent of monotonic register of the signal - flurninated function of the signal is active I consistent of monotonic register of the signal - flurninated function of the signal is active of the signal - flurninated function - flurninated				
Customer Sign Off Required	I confirm the ACB configuration as detailed within this order form is correct: Signed: Date:/				
FOR NHP OFFICE USE ONLY	Quote reference number: Sales Order No.: Ordering branch / Agent: Prepared by: Special instructions / NHP SR number:				
Notes	For more information on Terasaki TemPower 2 AR ACBs and the features listed within this order form, please contact NHP or consult the <u>NHP ACB Technical Catalogue</u> Please note that not all requested ACB features may be able to be accommodated due to terminal/wire count limitations 1) Ground Fault CT required for 3-pole ACB with ground fault, or for 4-pole ACB with REF 2) 4-pole ACB required 3) Only one option selectable per ACB: NS, OH, UFOF, REF and RPT/GFT (L/S curve) 4) Only One option selectable per ACB: NS, OH, UFOF, REF and RPT/GFT (L/S curve) 5) Not available with TemRack iR integrated remote racking 6) AR6 ACB with trip unit only available with 4 C/O (AXR-4C)				