Table 1 – Application characteristics of connections

Connection		Connection					
Primary	Secondary	is suitable to supply 3- phase, 3- wire service (secondary ungrounded or ground on one phase)	Connection is suitable to supply 3- phase, 4- wire service (neutral conductor grounded)	Phase shift high-voltage to low voltage (See Note 1)	Subject to primary grounding duty	Triple harmonic primary line currents suppressed (See Note 7)	"Problem" connections (See Note 2)
	\triangle	Yes	No	0°	No	Yes	
		No	Yes	0°	No	Yes	
	\prec	Yes	No	-30°	No	Yes	
	<u></u>	No	Yes	-30°	No	Yes	
	$\overline{\Box}$	Yes	No	-30°	No	Yes	
		No	Yes	-30°	No	Yes	
	人	Yes	No	0°	No	Yes	
	-	No	No	0°	No	Yes	Yes (See Note 3)

Connection		Connection					
Primary	Secondary	is suitable to supply 3- phase, 3- wire service (secondary ungrounded or ground on one phase)	Connection is suitable to supply 3- phase, 4- wire service (neutral conductor grounded)	Phase shift high-voltage to low voltage (See Note 1)	Subject to primary grounding duty	Triple harmonic primary line currents suppressed (See Note 7)	"Problem" connections (See Note 2)
<u></u>	\triangleleft	No	No	-30°	Yes	Yes	Yes (See Note 4)
		No	No	-30°	Yes	Yes	Yes (See Note 4)
	人	No	No	0°	No	No	
	<u></u>	No	Yes (See Note 8)	0°	No	No	Yes (See Note 5) (See Note 8)
	\dashv	Yes	No	See Note 6	No	No	
		No	Yes	See Note 6	No	No	
	<u></u>	No	Yes	See Note 6	No	No	

Connection		Connection	0				
Primary	Secondary	is suitable to supply 3- phase, 3- wire service (secondary ungrounded or ground on one phase)	Connection is suitable to supply 3- phase, 4- wire service (neutral conductor grounded)	Phase shift high-voltage to low voltage (See Note 1)	Subject to primary grounding duty	Triple harmonic primary line currents suppressed (See Note 7)	"Problem" connections (See Note 2)
<u></u>	\dashv	No	No	See Note 6	Yes	Yes	Yes (See Note 4)
	<u></u>	No	Yes (See Note 8)	See Note 6	No	No	Yes (See Note 8)
		No	Yes	0°	No	Yes	
		No	Yes	-30°	No	Yes	
-		No	Yes	-30°	No	No	

NOTE 1—Based on standard connections and phasor diagrams.

NOTE 2—"Problem" connections are those connections that should receive special consideration to avoid misapplication.

NOTE 3—This connection is incapable of furnishing a stabilized neutral, and its use may result in phase-to-neutral overvoltage on one or two legs as a result of unbalanced phase-to-neutral load.

NOTE 4—Connections designated act as primary grounding transformers and should not be used unless intended for such duty.

NOTE 5—The three-phase transformer of three-legged core-form construction is susceptible to tank heating with unbalanced phase to-neutral loads or ground faults.

NOTE 6—The T-connections in this table represent either similar or rotated orientation. The connection can be made to simulate any of the D and Y combinations.

NOTE 7—See Clause 6 for a discussion of harmonic currents and the suppression of these currents in certain winding configurations.

NOTE 8—Use only when the primary is effectively grounded (see Clause 4.1.2).